CX-BK1

SERVICE MANUAL

Ver 1.0 2003.06

US Model
AEP Model
UK Model
E Model

- CX-BK1 is the amplifier, CD player, tape deck and tuner section in BMZ-K1.
- Tape deck is not loaded in US model.

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CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM69BV-30CBD64NS
	Base Unit Name	BU-30CBD64NS
	Optical Pick-up Name	A-MAX.3
TAPE Section (Except US model)	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CMAL1Z240A

SPECIFICATIONS

TUNER

FM tuning range: 87.5 MHz to 108 MHz
FM usable sensitivity (IHF): 13.2 dBf
FM antenna terminal: 75 Ω (unbalanced)
AM tuning range: 530 kHz to 1710 kHz (10 kHz step)
531 kHz to 1710 kHz (9 kHz step)
AM usable sensitivity: 350 μV/m
AM antenna: Loop antenna

AMPLIFIER

Power output
US model: 110 W + 110 W (40 Hz - 20 kHz, THD less than 1%, 6 Ω)
140 W + 140 W (40 Hz - 20 kHz, THD 10%, 6 Ω)
Chilean, Peruvian and Mexican models:
140 W + 140 W (1 kHz, THD less than 1%, 6 Ω)
180 W + 180 W (1 kHz, THD 10%, 6 Ω)
Total harmonic distortion: 0.08 % (90 W, 1 kHz, 6 Ω)
Input: LINE IN VIDEO: 1.0 Vp-p (75 Ω)
LINE IN AUDIO: 1.1 V
AUX (MD) IN: 1.1 V
MIC: 2.5mV (Chilean, Peruvian and Mexican models)
Outputs: SPEAKERS: 6 Ω or more
PHONES: 32 Ω or more
AUX (MD) OUT: 500 mV
VIDEO OUT: 1.0 Vp-p (75 Ω)

CD PLAYER

Laser: Semiconductor laser (λ = 800 nm)
Emission duration: continuous
D/A converter: 1 bit dual
Signal-to-noise ratio: 85 dB (1 kHz, 0 dB)
Wow and flutter: Unmeasurable

CASSETTE DECK (Except US model)

Track format: 4 tracks, 2 channels stereo
Frequency response: 100 Hz – 10000 Hz (±3dB)
Recording system: AC bias
Heads: Recording/playback × 1, erase × 1

GENERAL

Power requirements
US model: 120 V, 60 Hz
Mexican model: 127 V, 60 Hz
Chilean and Peruvian models:
120 V/220 – 230 V/240 V AC (switchable), 50/60 Hz

Power consumption
US model: 120 W
Chilean and Peruvian models:
155 W
Mexican model: 160 W
Power consumption in standby mode
US model: with ECO mode on: 0.25 W
with ECO mode off: 20 W
Chilean and Mexican models:
with ECO mode on: 0.25 W
with ECO mode off: 28 W
Dimensions (w/h/d): Approx. 211 × 379 × 419 mm (8 3/8 × 15 × 16 5/8 in.)
Mass
US model: Approx. 8.6 kg (19 lbs)
Chilean and Peruvian models:
Approx. 9.9 kg

Specifications and external appearance are subject to change without notice.

COMPACT DISC RECEIVER

US model

COMPACT DISC DECK RECEIVER

AEP, UK, Chilean, Peruvian and Mexican models

9-877-426-01 **Sony Corporation**
2003F05-1 **Home Audio Company**
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Published by Sony Engineering Corporation

Notes on chip component replacement

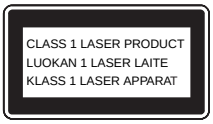
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

The following caution label is located inside the unit.



This appliance is classified as a CLASS 1 LASER product.

This label is located on the rear exterior.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 ˚C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 ˚C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

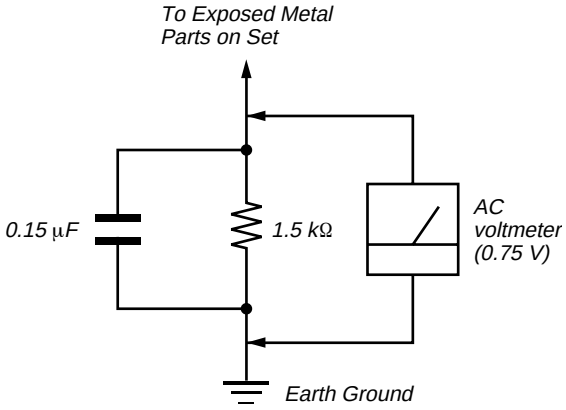


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

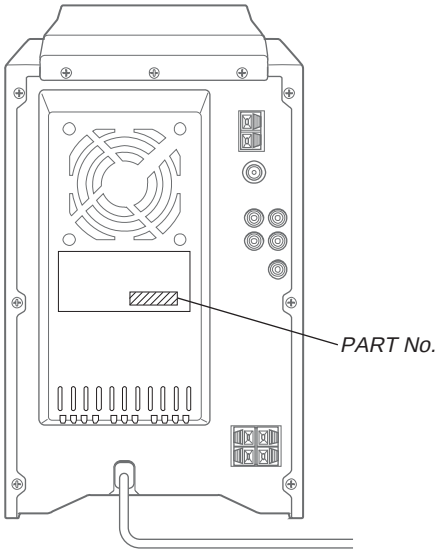
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

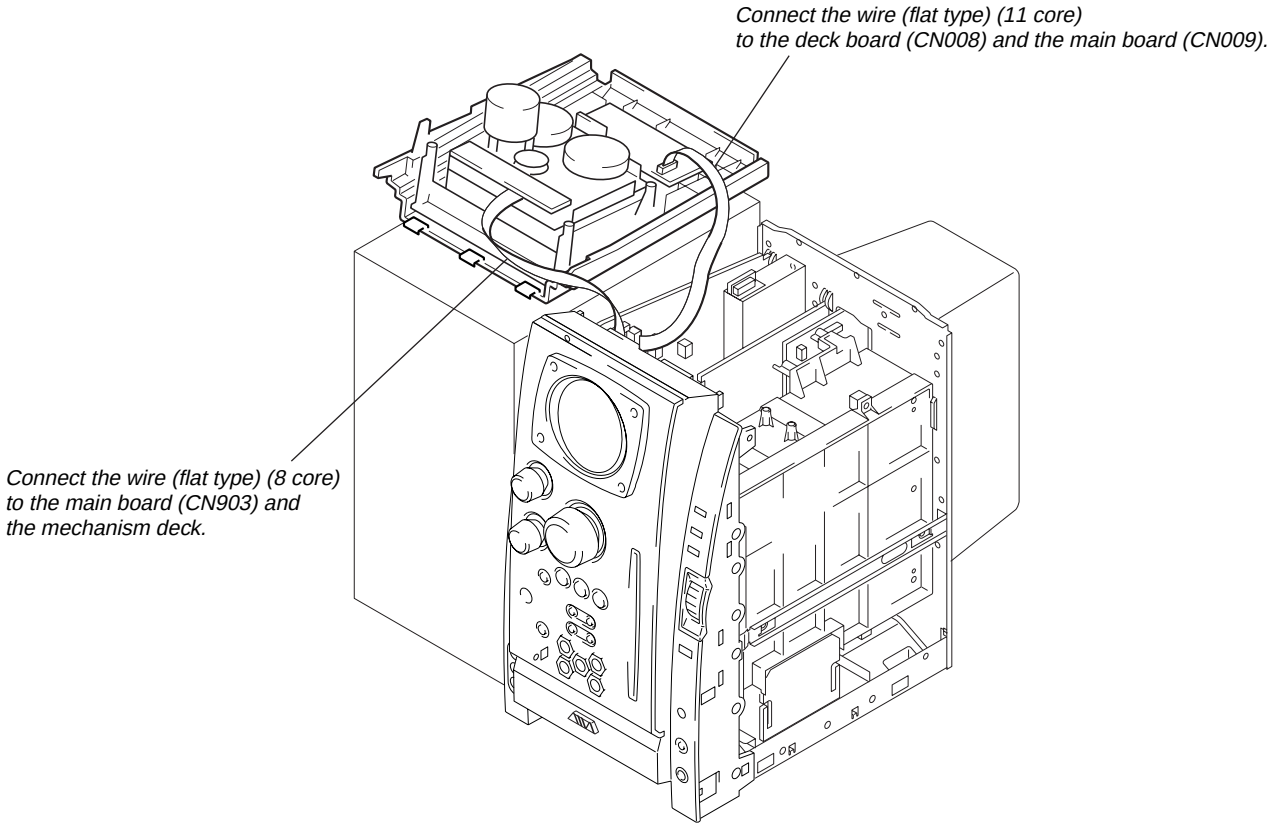
Carry out the "S curve check" in "CD section adjustment" and check that the S curve waveforms is output three times.

• MODEL IDENTIFICATION
– Rear Cover –



MODEL	PART No.
US model	4-245-039-0□
Chilean and Peruvian models	4-245-039-1□
AEP and UK models	4-245-039-2□
Mexican model	4-245-039-3□

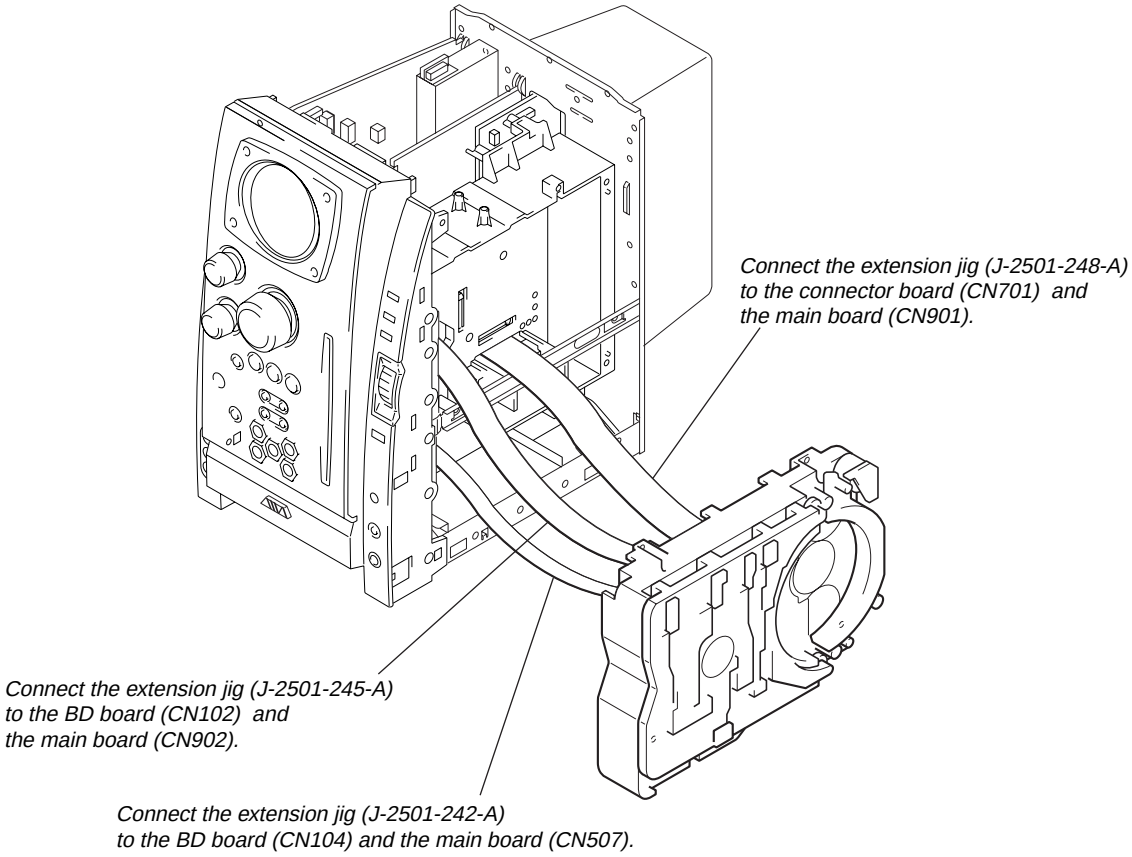
SERVICE POSITION
– Tape mechanism deck (except US) –


Connect the wire (flat type) (11 core)
to the deck board (CN008) and the main board (CN009).
Connect the wire (flat type) (8 core)
to the main board (CN903) and
the mechanism deck.

– CD mechanism deck –

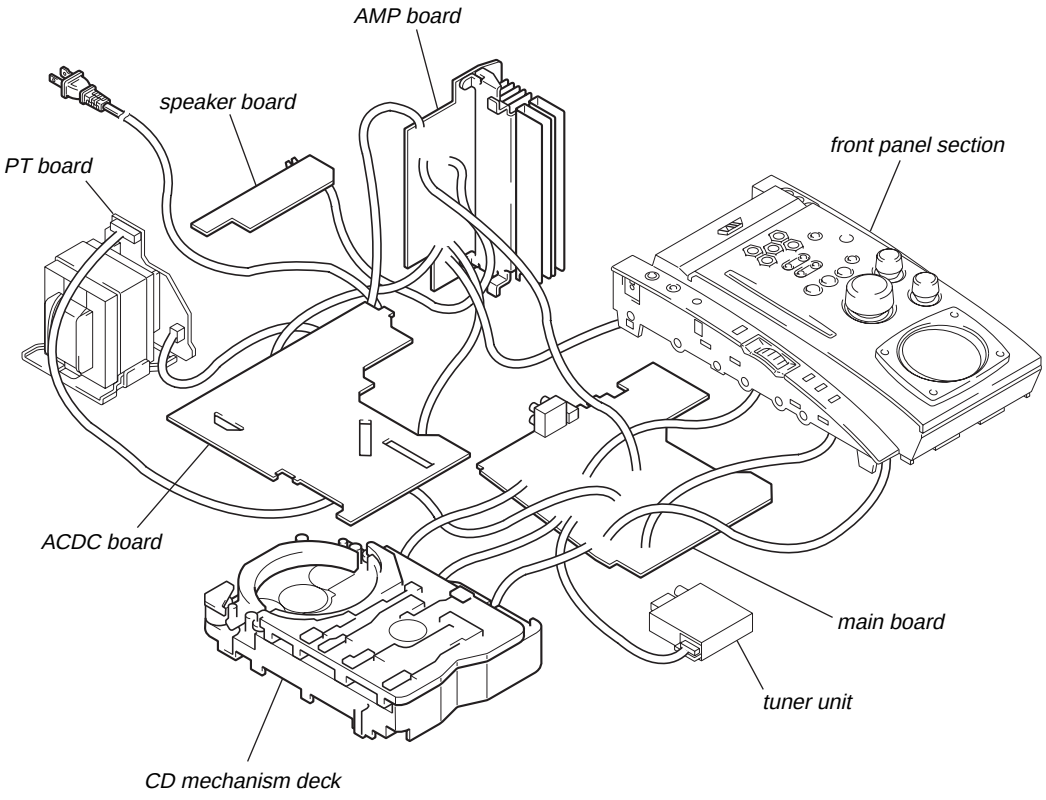
- In checking the CD mechanism deck section, prepare three extension jigs (Part No. J-2501-242-A:1.00 mm 11core/ Part No. J-2501-245-A: 1.00 mm 23 core/Part No. J-2501-248-A: 1.00mm 27 core).

Note: The CD mechanism deck of this model is a vertical type and putting it vertically as shown in the figure is the standard position. When checking signals such as RF waveforms, operate it with the CD mechanism deck in the standard position as shown below.


Connect the extension jig (J-2501-248-A) to the connector board (CN701) and the main board (CN901).
Connect the extension jig (J-2501-245-A) to the BD board (CN102) and the main board (CN902).
Connect the extension jig (J-2501-242-A) to the BD board (CN104) and the main board (CN507).

– main board, ACDC board –

- For connecting the CD mechanism deck, prepare three extension jigs. (Refer to "– CD mechanism deck –")

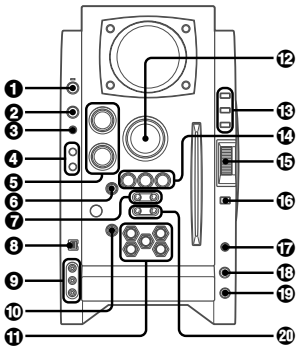


SECTION 2
GENERAL

This section is extracted from instruction manual.

• LOCATION OF CONTROLS

Main unit: front



❶ **POWER ⏻STANDBY/ON**
Switches the unit on and off (standby).

❷ **FUNCTION**
Switches the active function among CD, USB, TAPE (Except US model), TUNER, VIDEO and AUX.

❸ **BAND**
Select tuner function and the tuner band.

❹ **GEQ**
Selects a sound equalization curve.

i-Bass
Produces rich and clear low frequency sound.

❺ **TREBLE/MIDDLE**
Adjusts the treble or middle range level.

BASS
Adjusts the bass level.

❻ **PLAY MODE (US model)**
Selects various CD play mode.

●REC (Except US model)
Starts tape recording.
Also used to enter 4-second blank spaces during recording.

❼ **TUNING DOWN◄◄/I◄◄, UP►►/►►I**
CD: skips to a previous or a succeeding track when pressed, searches a track in fast forward or reverse playback when held down.
Tape: rewinds or fast forwards the tape. (Except US model)
Tuner: manually tunes up or down within the band.

❽ **USB terminal**
Accepts sound signals from a personal computer.
Connect your personal computer to this terminal with a USB cable so that the unit can output the sound of an audio file which is played back by the Winamp3 on your computer.
Be sure to see "CONNECTING A PERSONAL COMPUTER" for the details about the computer requirements, how to connect and so on before actually connecting your computer.

❾ **LINE IN (VIDEO/AUDIO) jacks**
Accepts analog signals from external equipment.
Connect using an optional connecting cable with RCA phono plugs (red plug to R jack, white plug to L jack, yellow plug to VIDEO jack).
Refer also to the operating instructions of your equipment.
To switch function to external input, press FUNCTION repeatedly to display "VIDEO".

❿ **▲EJECT**
Ejects the disc(s).

⓫ **DISC SELECT (1-5)**
Selects a disc slot.
Starts CD play for one desired disc.

⓬ **VOLUME**
Adjusts the volume.

⓭ **TITLE**
When the unit is turned off: activates or deactivated DEMO.
Changes the display in MP3-CD or USB source.

DISPLAY
Changes the display in CD playback mode.
Turns the back light on and off when the unit is turned off.

MODE
Selects various modes (sound adjustment, etc.) when used in combination with ENTER and MULTI JOG.
Switches the ECO mode on and off when the unit is turned off.

⓮ **❚❚PAUSE/SET**
Pauses CD play.

■STOP/CLEAR
Stops CD play.

►PRESET (US model)
Starts CD play.

◄►PRESET (Except US model)
Starts CD or tape play.

⓯ **MULTI JOG**
When used in combination with ENTER and MULTI JOG, CD: selects a track.
Tuner: selects a preset station.

⓰ **ENTER**
Fixes the modes and the time (clock and timer, etc.) when used in combination with ENTER and MULTI JOG.

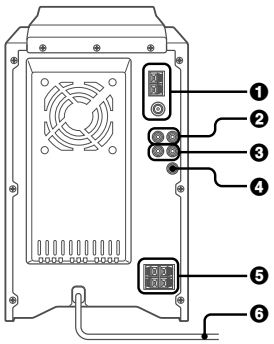
⓱ **PHONES jack**
Plug in optional headphones set with a stereo mini plug (Ø3.5 mm). Speaker output is canceled.

⓲ **MIC MIXING (Chilean and Peruvian models)**
Adjusts the microphone volume.

⓳ **MIC jack (Chilean and Peruvian models)**
Connects the microphone.

⓴ **ALBUM/PLAY LIST ▼,▲**
Skips to a previous or succeeding album or play list.

Main unit: rear



❶ **AM LOOP jack and FM 75 Ω terminal**
Plug in the supplied AM and FM antennas.

❷ **AUX IN jacks**
Accept analogue sound signals from external equipment.
Connect external equipment using an optional connecting cable with RCA phono plugs (red plug to R jack, white plug to L jack). Refer also to the operating instructions for your equipment.
To switch function to external input, press FUNCTION repeatedly to display "AUX" (US model) or "MD" (Chilean, Peruvian and Mexican models).

❸ **AUX OUT jacks**
Analog sound signals for all functions can be output through these jacks. Use a cable with RCA phono plugs to connect audio equipment.
Connect the red plug to the R jack, and the white plug to the L jack.
However, the signal is not output when the function is "VIDEO" or "AUX" (US model) or "MD" (Chilean, Peruvian and Mexican models).

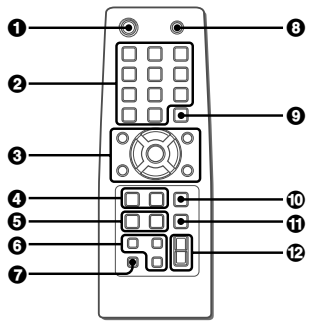
❹ **VIDEO OUT**
Signals from VIDEO IN jack output through this jack.

❺ **▷SPEAKERS terminals**
Connect the speaker cords of the supplied speakers.

❻ **AC power cord**

Remote commander

Refer to the pages indicated in parentheses for details.



Buttons with the same or similar names on the main unit basically have the same function.

❶ **POWER**

❷ **1-9, 0/10, +10**
CD: selects a track of the specified number.
Tuner: tunes in the station with the specified preset number.

The numbered buttons take on these functions when pressed with SHIFT held down.

EDIT (Chilean, Peruvian and Mexican models)
Selects edited CD recording.

BAND

SPECTRUM
Changes the spectrum analyser display.

TUNER MODE
Switches between stereo or monaural FM reception.

KARAOKE (Chilean, Peruvian and Mexican models)
Selects a Karaoke mode.

GEQ

❸ **►/◄►**
Starts CD play.

■

❚❚

◄◄/►►

I◄◄/►►IPRESET
Tuner: selects a preset station.

∨/∧ ALBUM
Selects a previous or a succeeding album.

❹ **PLAY MODE**

REPEAT
Selects repeat CD playback mode.

❺ **CLOCK/TIMER SET**
Enters clock and timer setting mode.

CLOCK/TIMER SELECT
Switches timer setting on and off.

❻ **DISPLAY**

SOUND
Selects bass, treble or middle range level setting mode.

CLEAR
Clears a track of the CD programed playback and a tuner preset station.

❼ **SHIFT**
Hold down when pressing a numbered button to change its function to that printed above the number.

❽ **FUNCTION**

❾ **DISC SKIP**
Changes a disc slot.

❿ **ENTER**

⓫ **SLEEP**
Selects sleep-timer mode.

⓬ **VOLUME +, –**

Setting the clock

1 Press CLOCK/TIMER SET on the remote.
See below when to adjust the clock.

2 Press I◄◄ or ►►I to set the hour, then press ENTER.

3 Press I◄◄ or ►►I to set the minute.
Each press changes the time in 1-minute steps.

4 Press ENTER.
The time display stops flashing and the clock starts from 00 seconds.

• MULTI JOG is also available in place of I◄◄ or ►►I.

To adjust the clock

1 Press CLOCK/TIMER SET on the remote.
2 Press I◄◄ or ►►I repeatedly to display "CLOCK" and then press ENTER.
3 Carry out steps 2 to 4 described in "Setting the clock" to set the time.

To display the time while the power is on

Press DISPLAY repeatedly. The clock display appears in the display for 6 seconds.

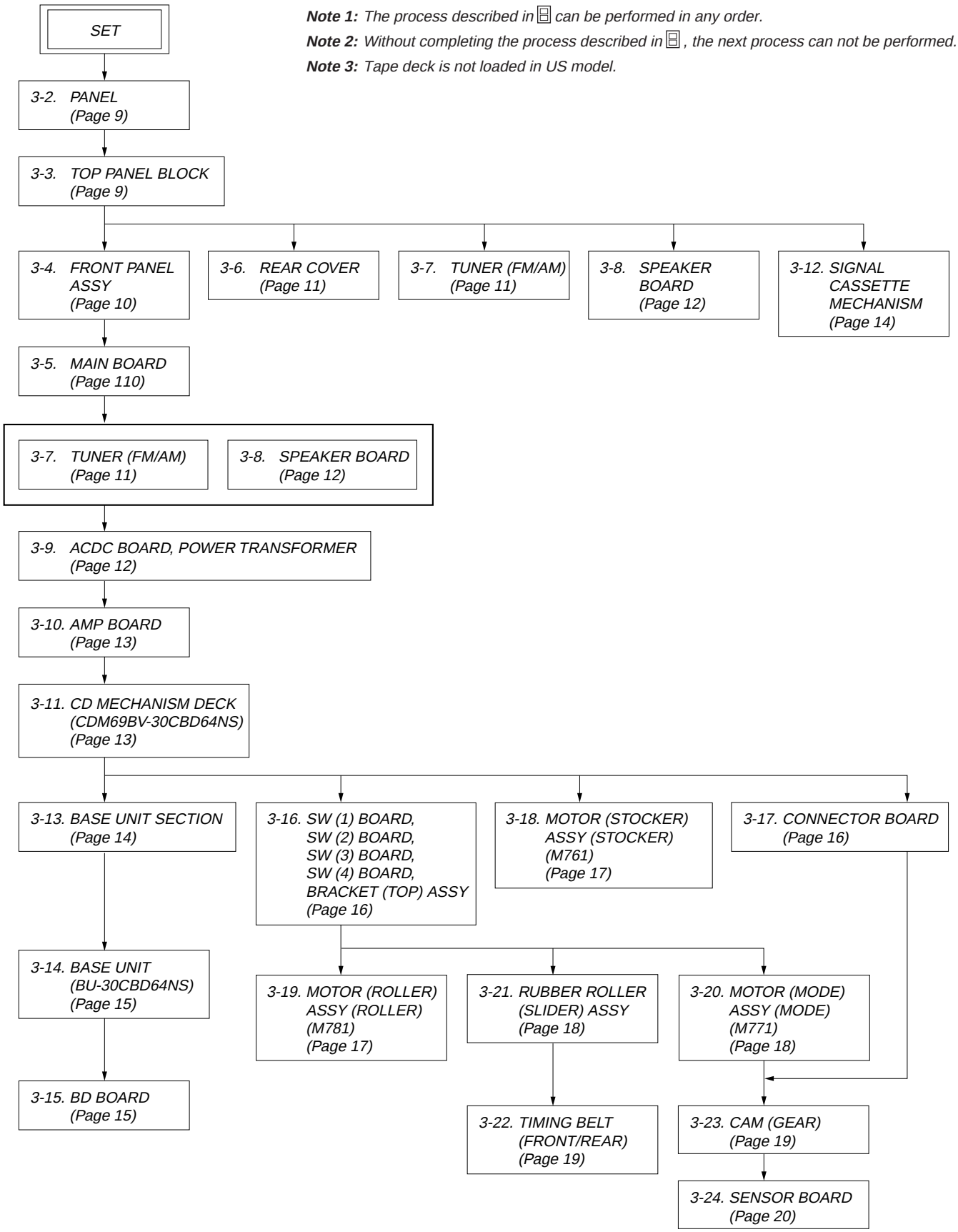
If "- -:- -" appears when the unit is turned off

There has been a power interruption. Reset the clock.

SECTION 3
DISASSEMBLY

• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW


SET
3-2. PANEL (Page 9)
3-3. TOP PANEL BLOCK (Page 9)
3-4. FRONT PANEL ASSY (Page 10)
3-6. REAR COVER (Page 11)
3-7. TUNER (FM/AM) (Page 11)
3-8. SPEAKER BOARD (Page 12)
3-12. SIGNAL CASSETTE MECHANISM (Page 14)
3-5. MAIN BOARD (Page 110)
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3-15. BD BOARD (Page 15)
3-22. TIMING BELT (FRONT/REAR) (Page 19)
3-23. CAM (GEAR) (Page 19)
3-24. SENSOR BOARD (Page 20)

Note 1: *The process described in ☐ can be performed in any order.*

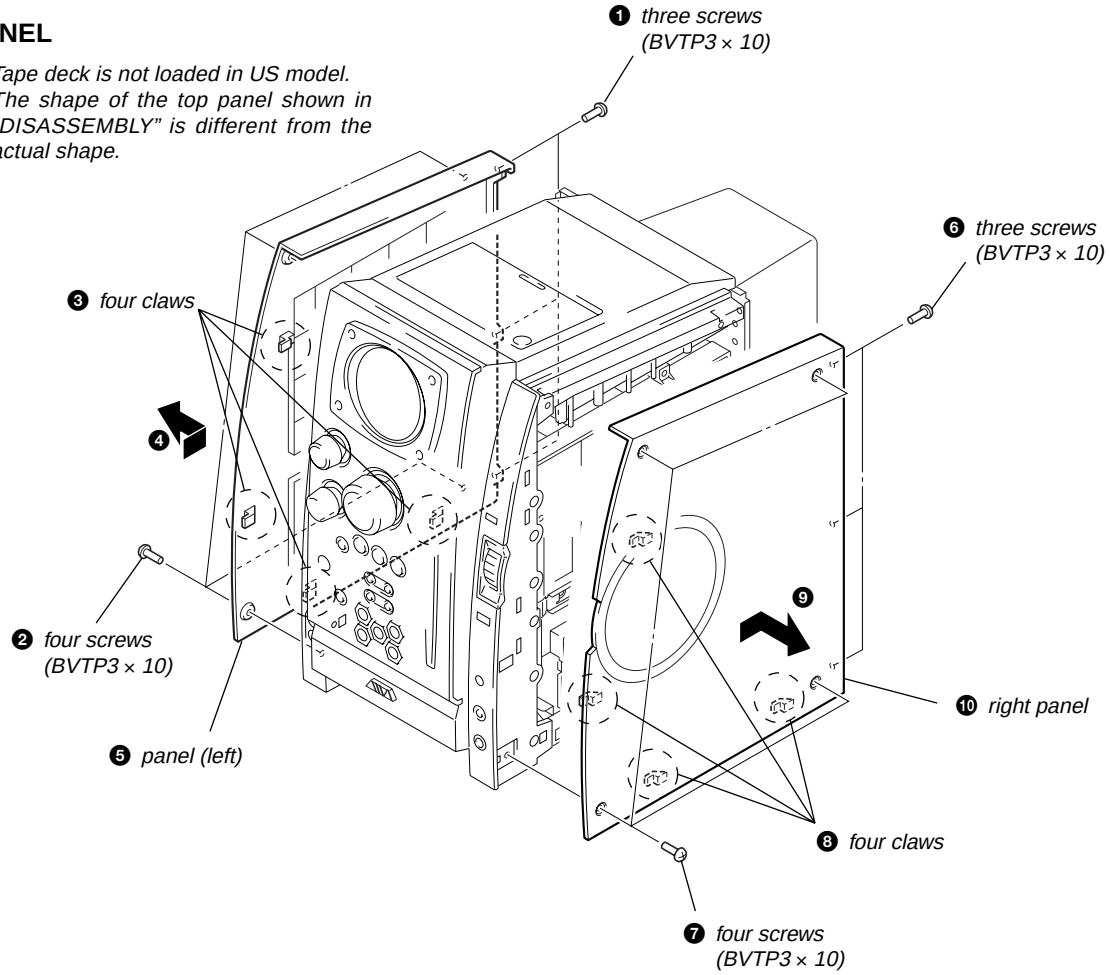
Note 2: *Without completing the process described in ☐, the next process can not be performed.*

Note 3: *Tape deck is not loaded in US model.*

Note: Follow the disassembly procedure in the numerical order given.

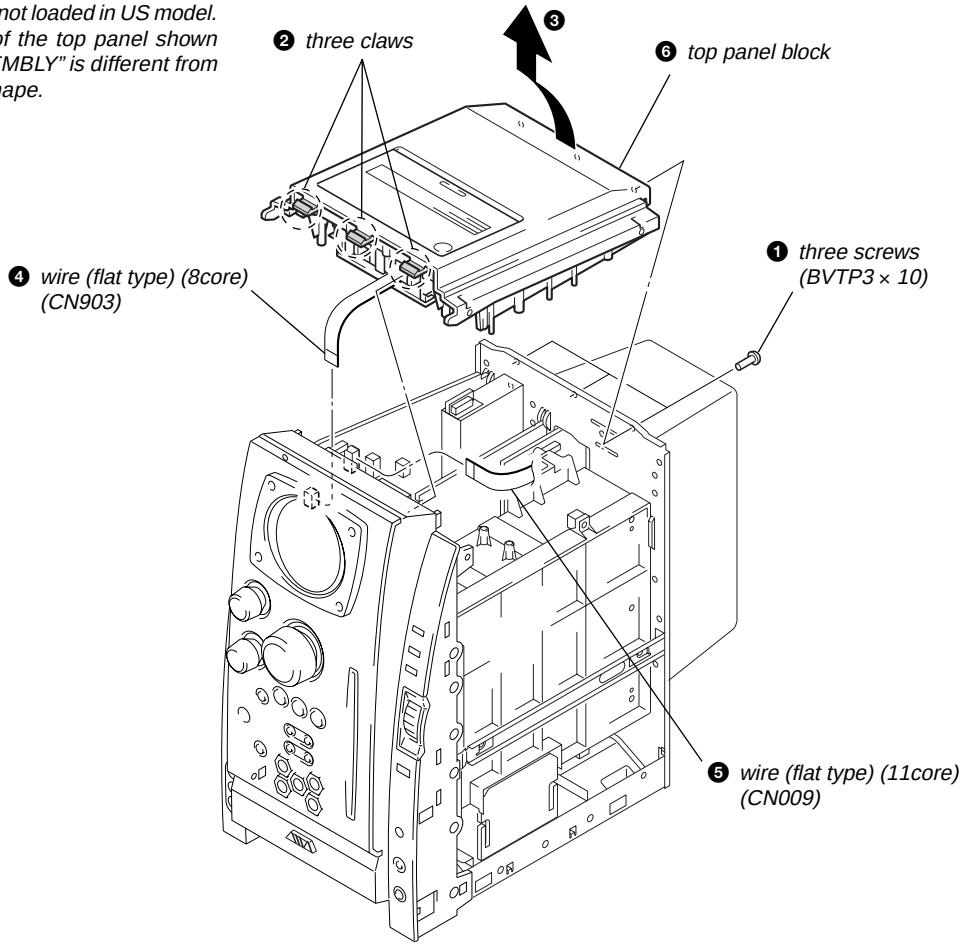
3-2. PANEL

- *Tape deck is not loaded in US model. The shape of the top panel shown in "DISASSEMBLY" is different from the actual shape.*

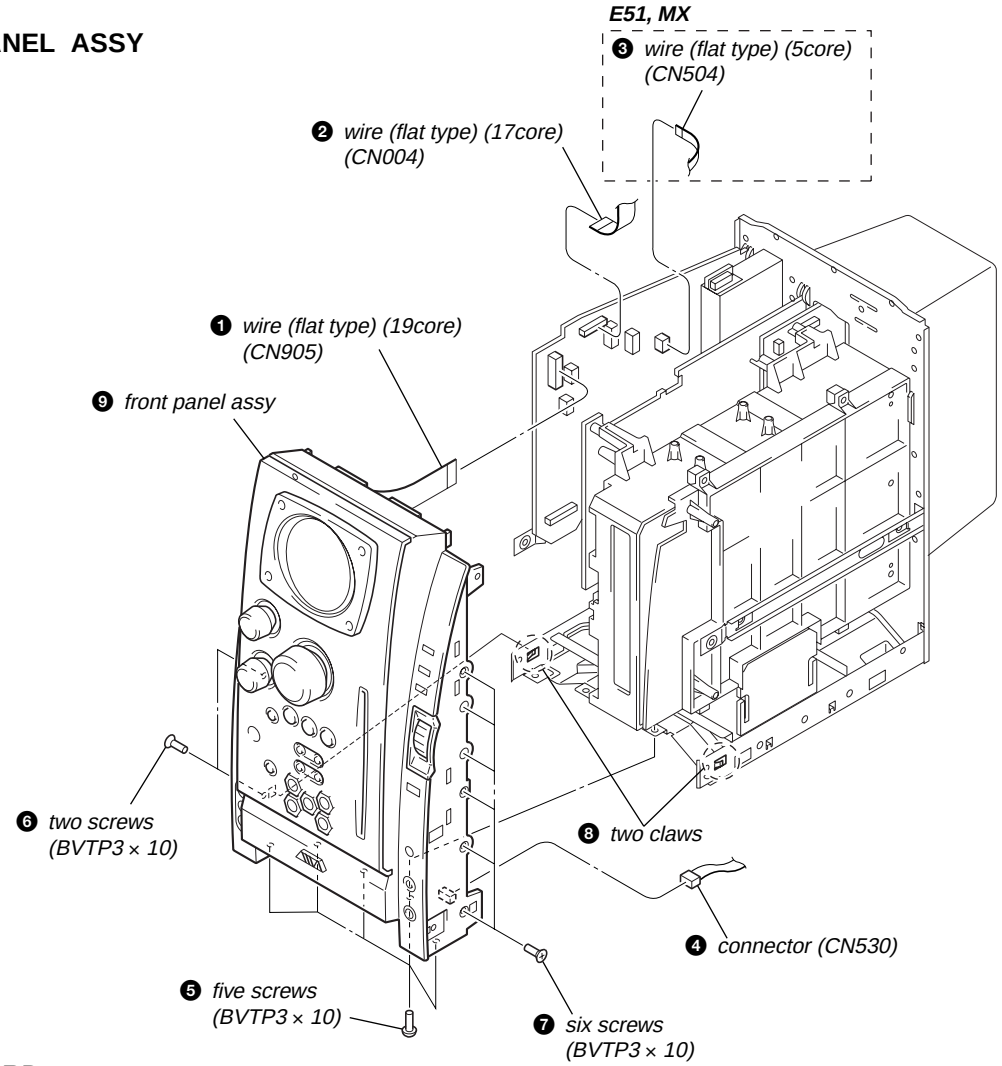


3-3. TOP PANEL BLOCK

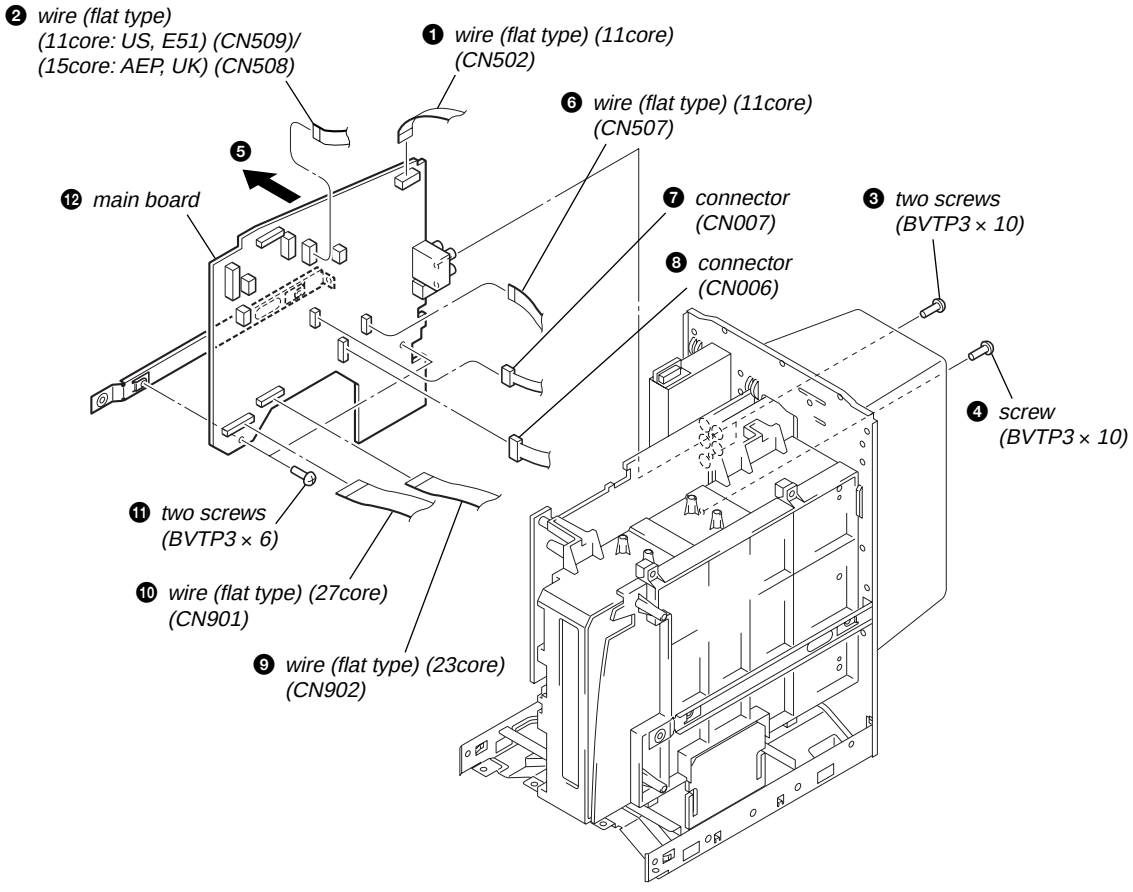
- *Tape deck is not loaded in US model. The shape of the top panel shown in "DISASSEMBLY" is different from the actual shape.*



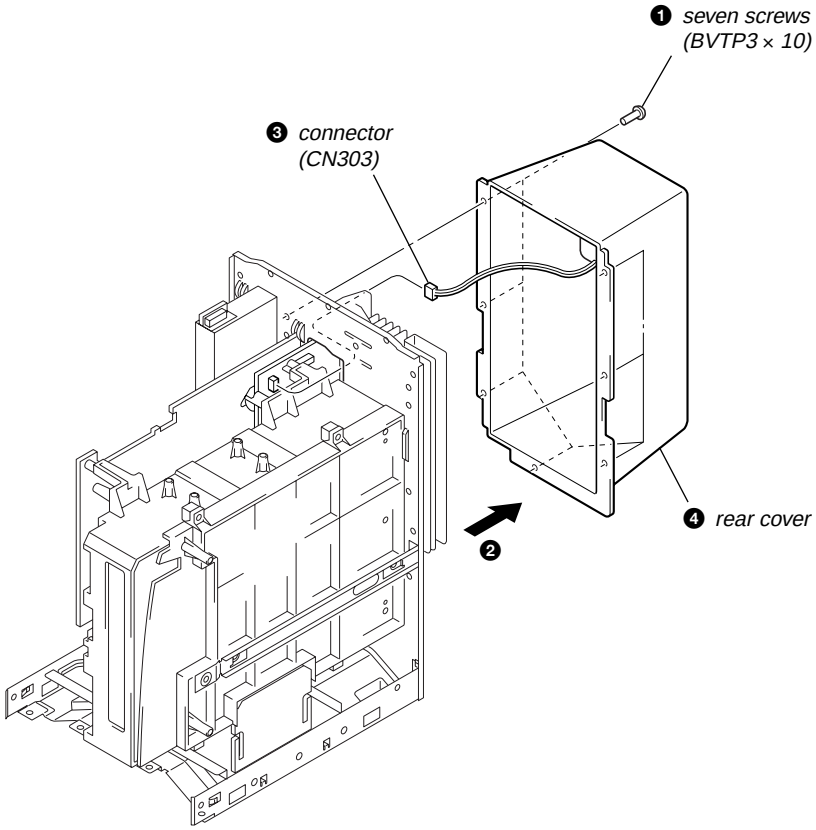
3-4. FRONT PANEL ASSY


E51, MX
❸ wire (flat type) (5core) (CN504)
❷ wire (flat type) (17core) (CN004)
❶ wire (flat type) (19core) (CN905)
❾ front panel assy
❻ two screws (BVTP3 × 10)
❽ two claws
❹ connector (CN530)
❺ five screws (BVTP3 × 10)
❼ six screws (BVTP3 × 10)

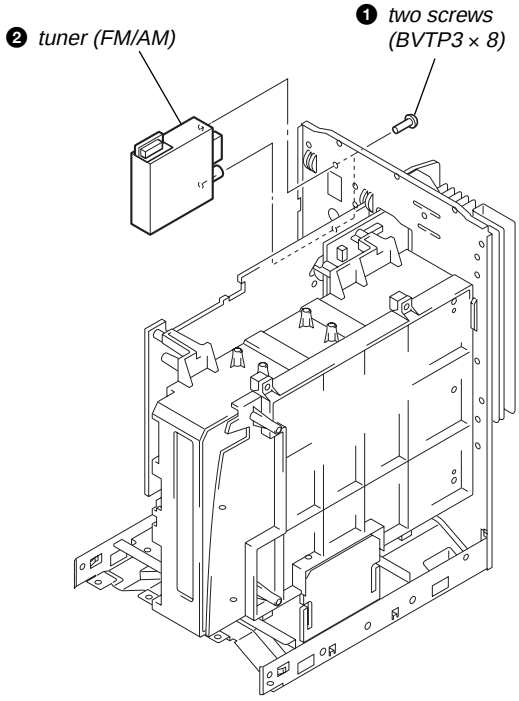
3-5. MAIN BOARD


❷ wire (flat type) (11core: US, E51) (CN509)/ (15core: AEP, UK) (CN508)
❶ wire (flat type) (11core) (CN502)
❻ wire (flat type) (11core) (CN507)
❺
❿ main board
❼ connector (CN007)
❸ two screws (BVTP3 × 10)
❽ connector (CN006)
❹ screw (BVTP3 × 10)
⓫ two screws (BVTP3 × 6)
❿ wire (flat type) (27core) (CN901)
❾ wire (flat type) (23core) (CN902)

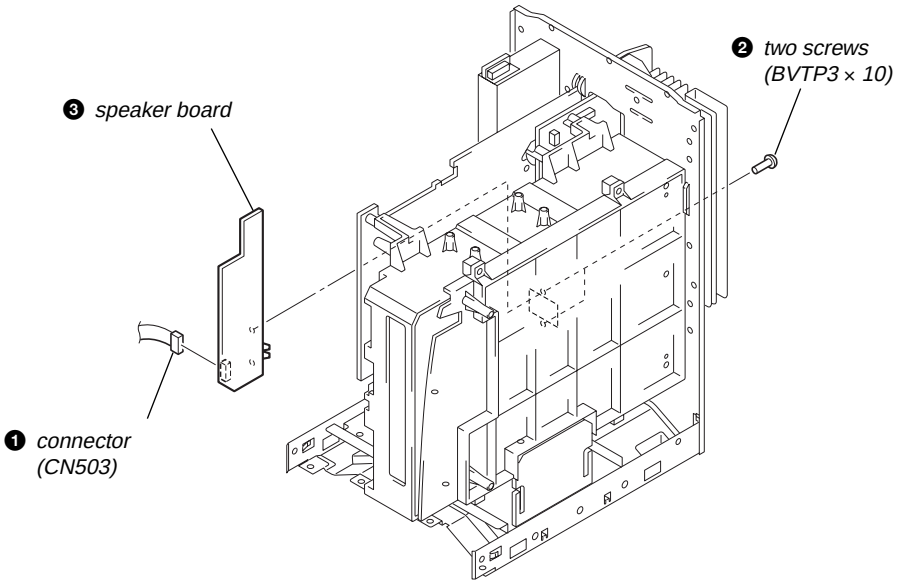
3-6. REAR COVER



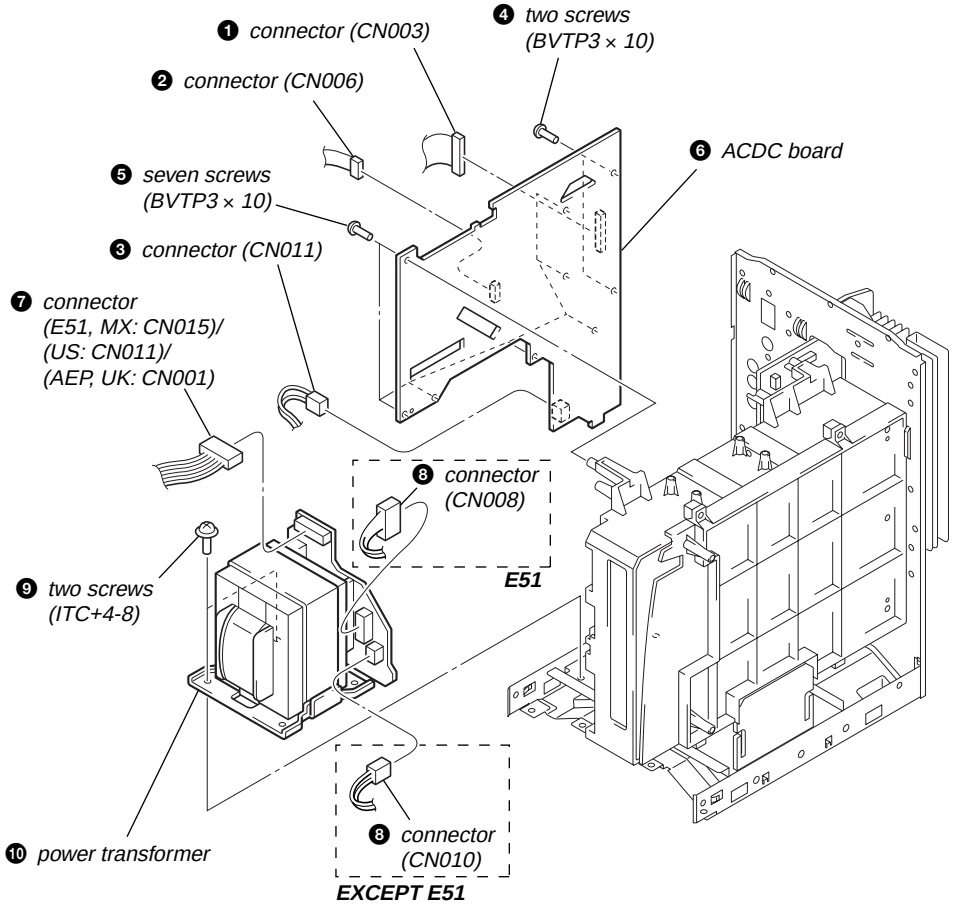
3-7. TUNER (FM/AM)



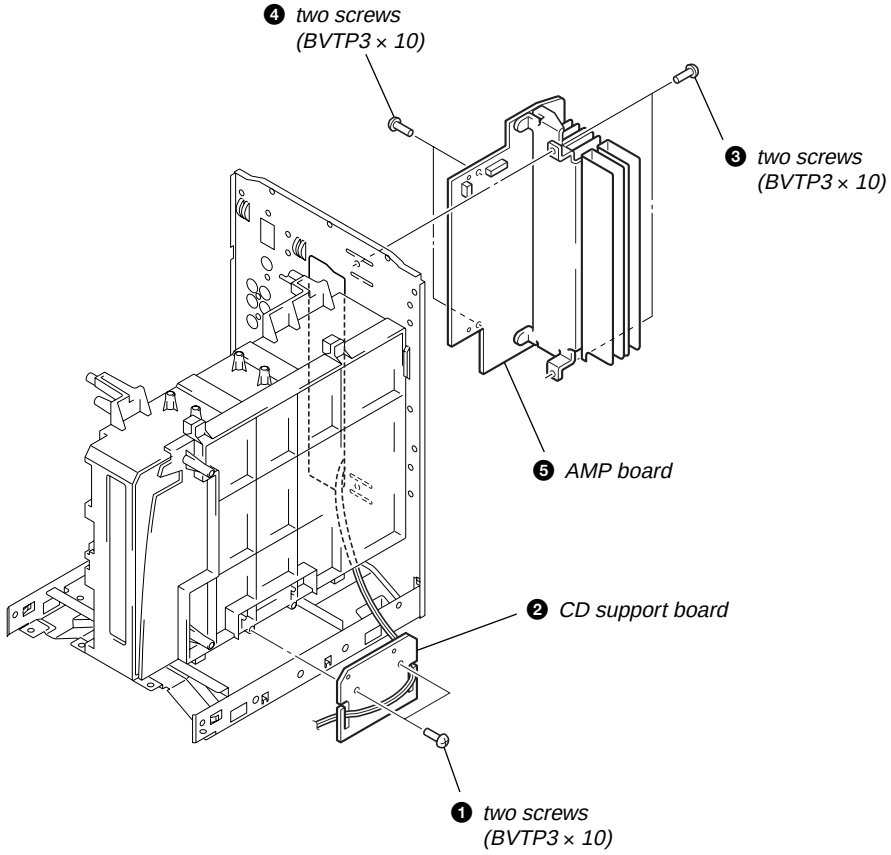
3-8. SPEAKER BOARD



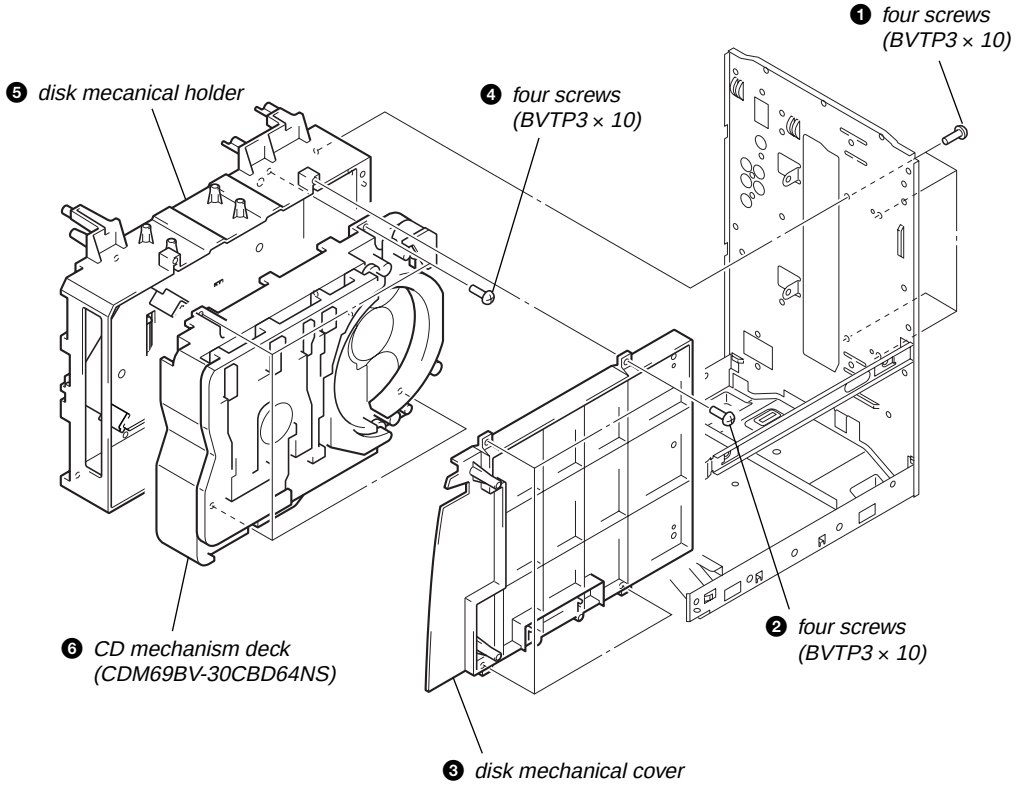
3-9. ACDC BOARD, POWER TRANSFORMER



3-10. AMP BOARD

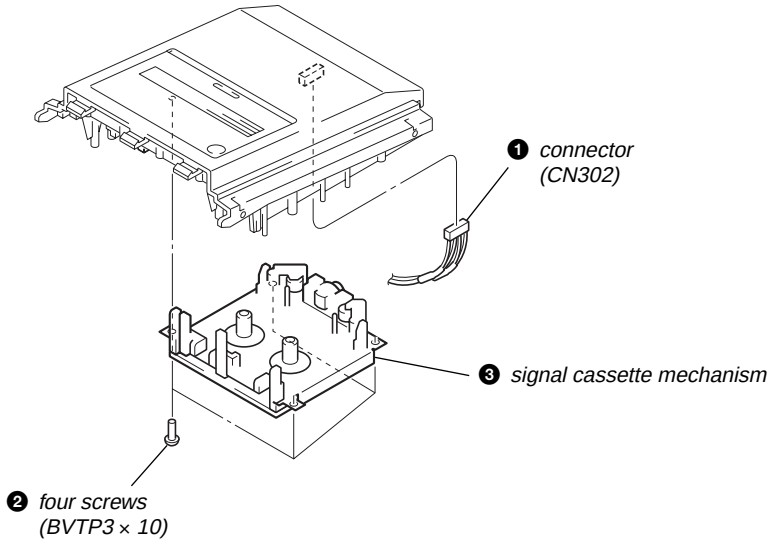


3-11. CD MECHANISM DECK (CDM69BV-30CBD64NS)

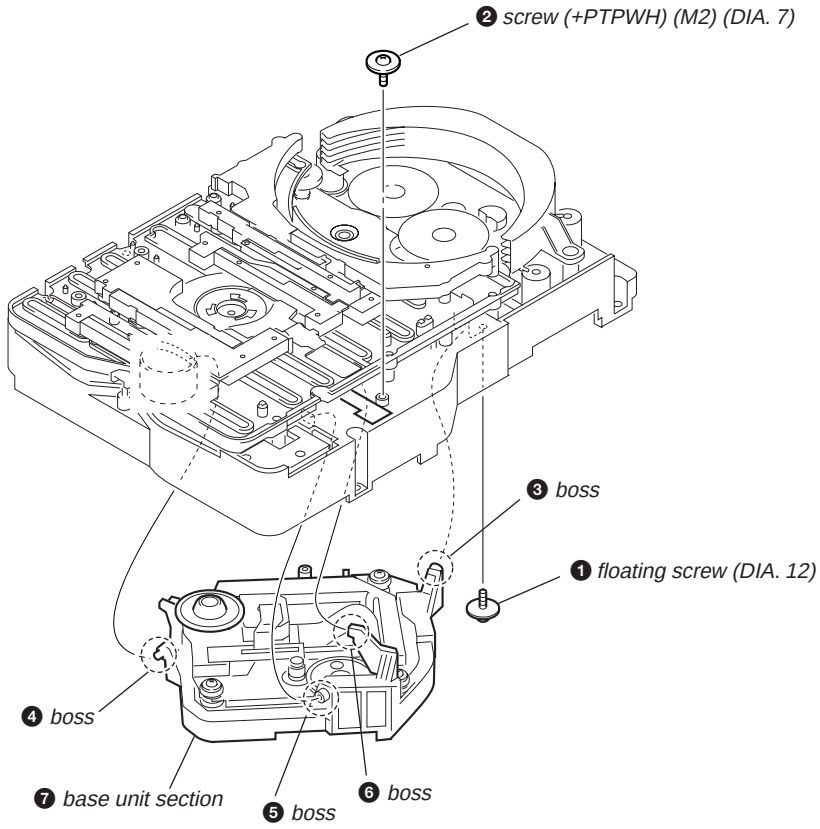


3-12. SIGNAL CASSETTE MECHANISM

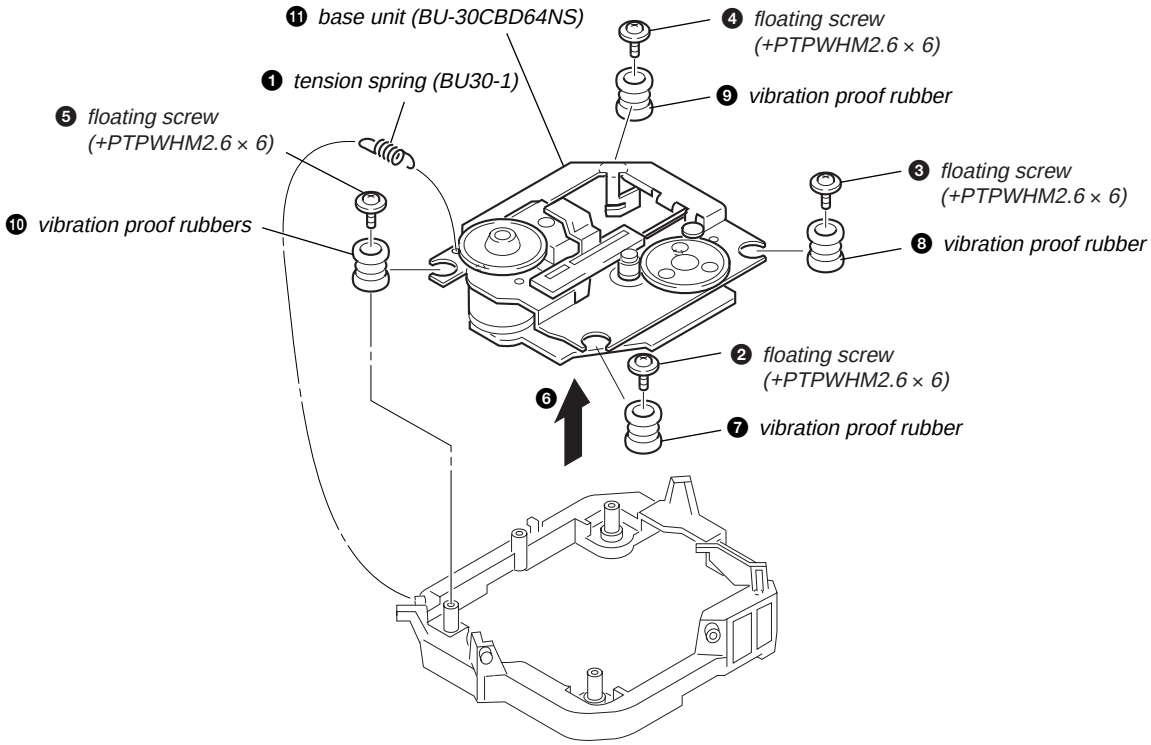
- *Tape deck is not loaded in US model.*



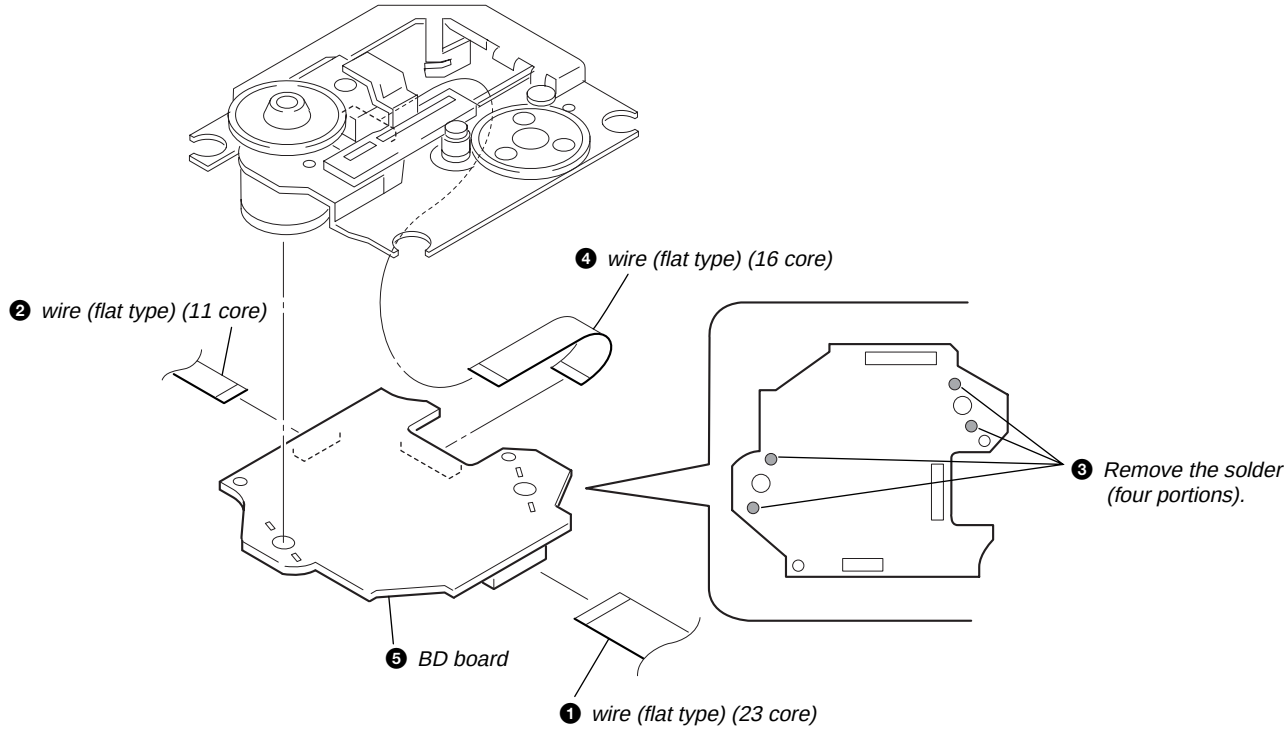
3-13. BASE UNIT SECTION



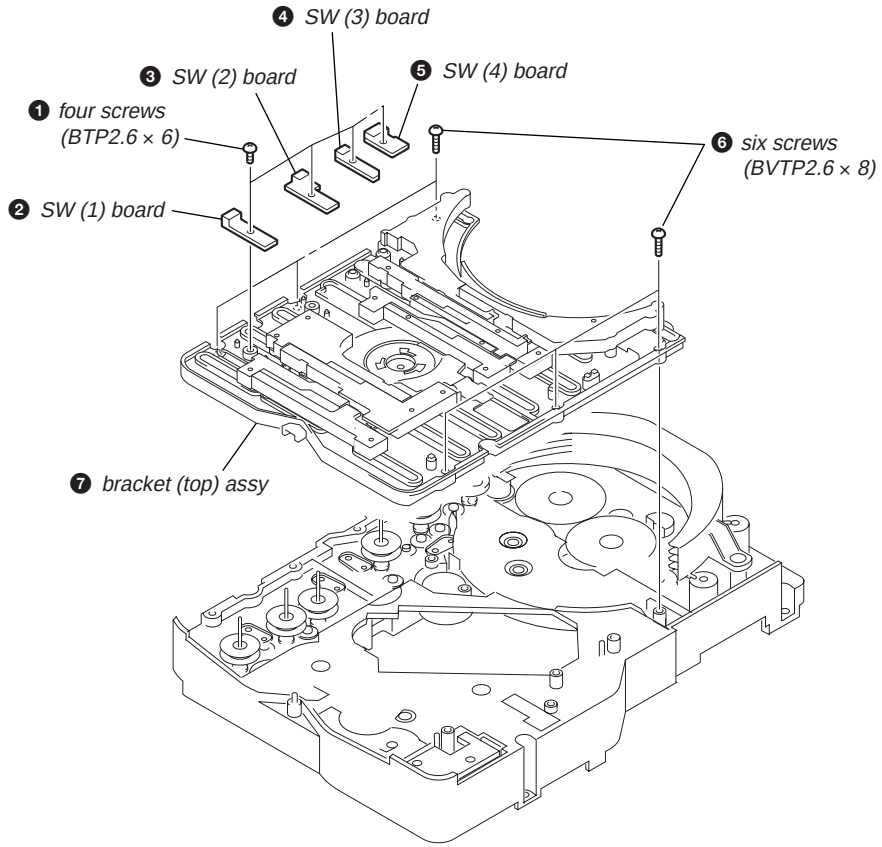
3-14. BASE UNIT (BU-30CBD64NS)


⓫ base unit (BU-30CBD64NS)
❹ floating screw (+PTPWHM2.6 × 6)
❶ tension spring (BU30-1)
❾ vibration proof rubber
❺ floating screw (+PTPWHM2.6 × 6)
❸ floating screw (+PTPWHM2.6 × 6)
❿ vibration proof rubbers
❽ vibration proof rubber
❷ floating screw (+PTPWHM2.6 × 6)
❻
❼ vibration proof rubber

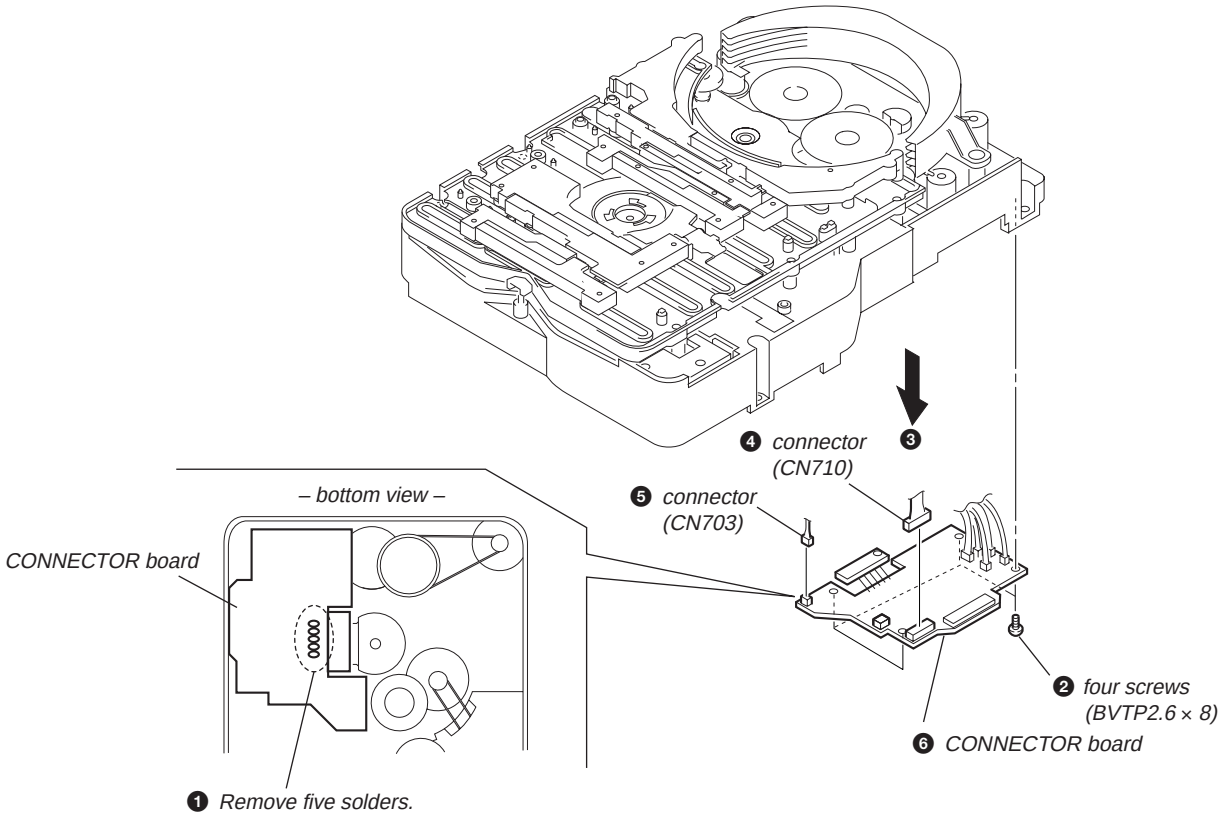
3-15. BD BOARD



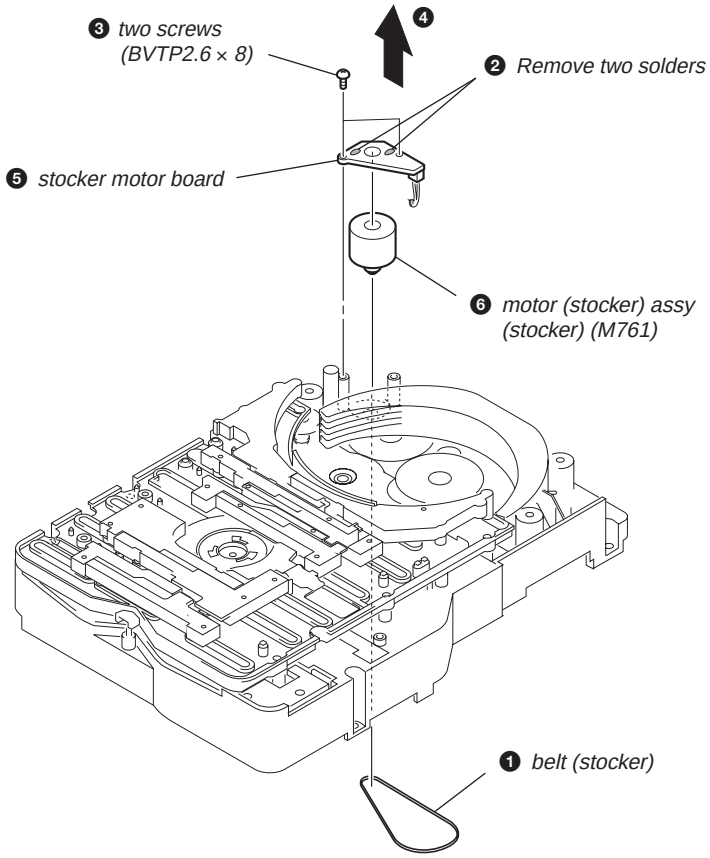
3-16. SW (1) BOARD, SW (2) BOARD, SW (3) BOARD, SW (4) BOARD, BRACKET (TOP) ASSY



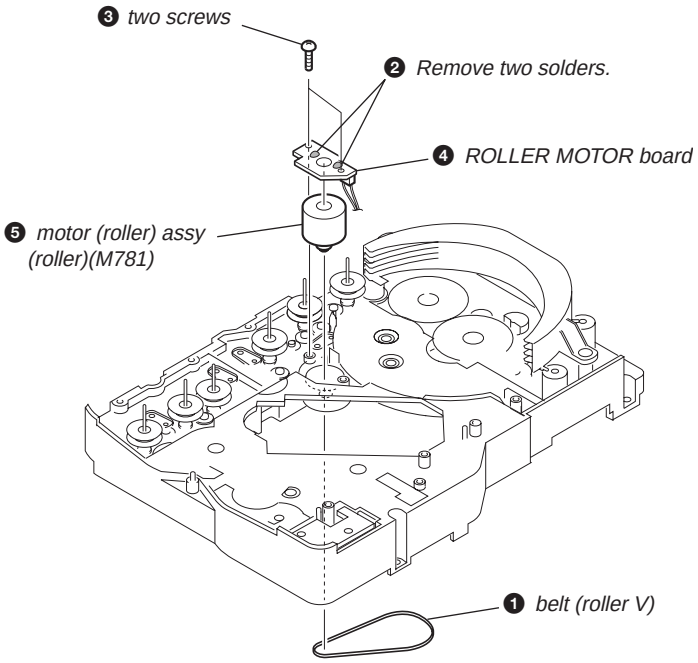
3-17. CONNECTOR BOARD



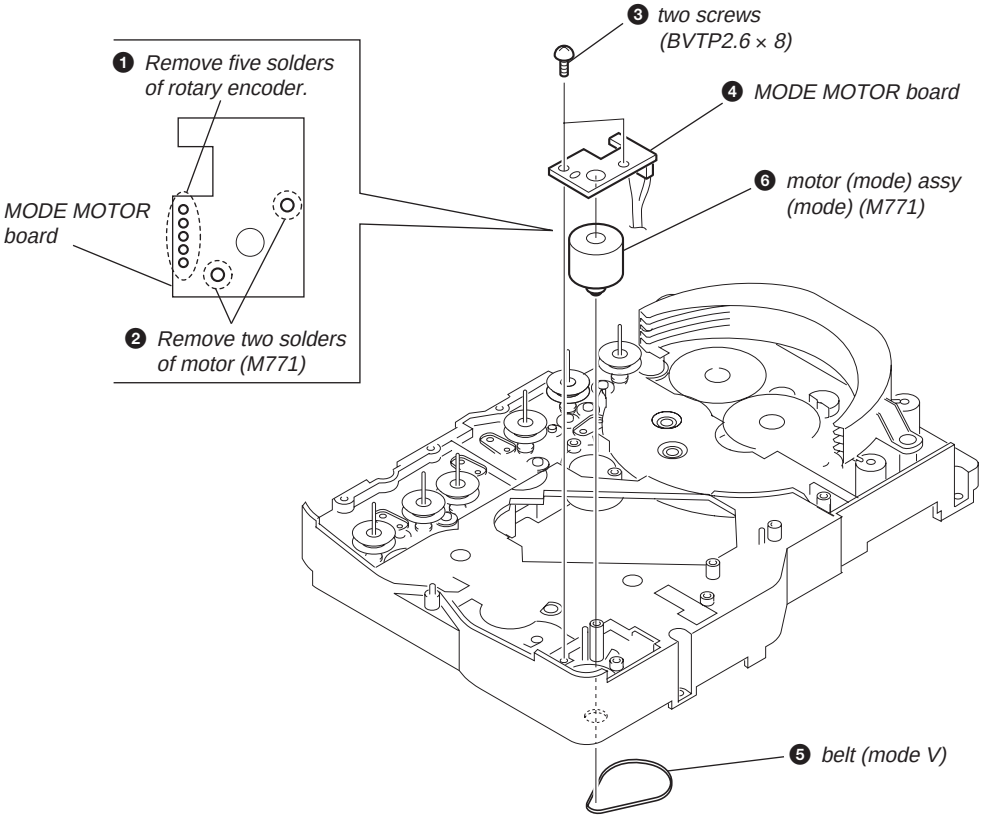
3-18. MOTOR (STOCKER) ASSY (STOCKER) (M761)



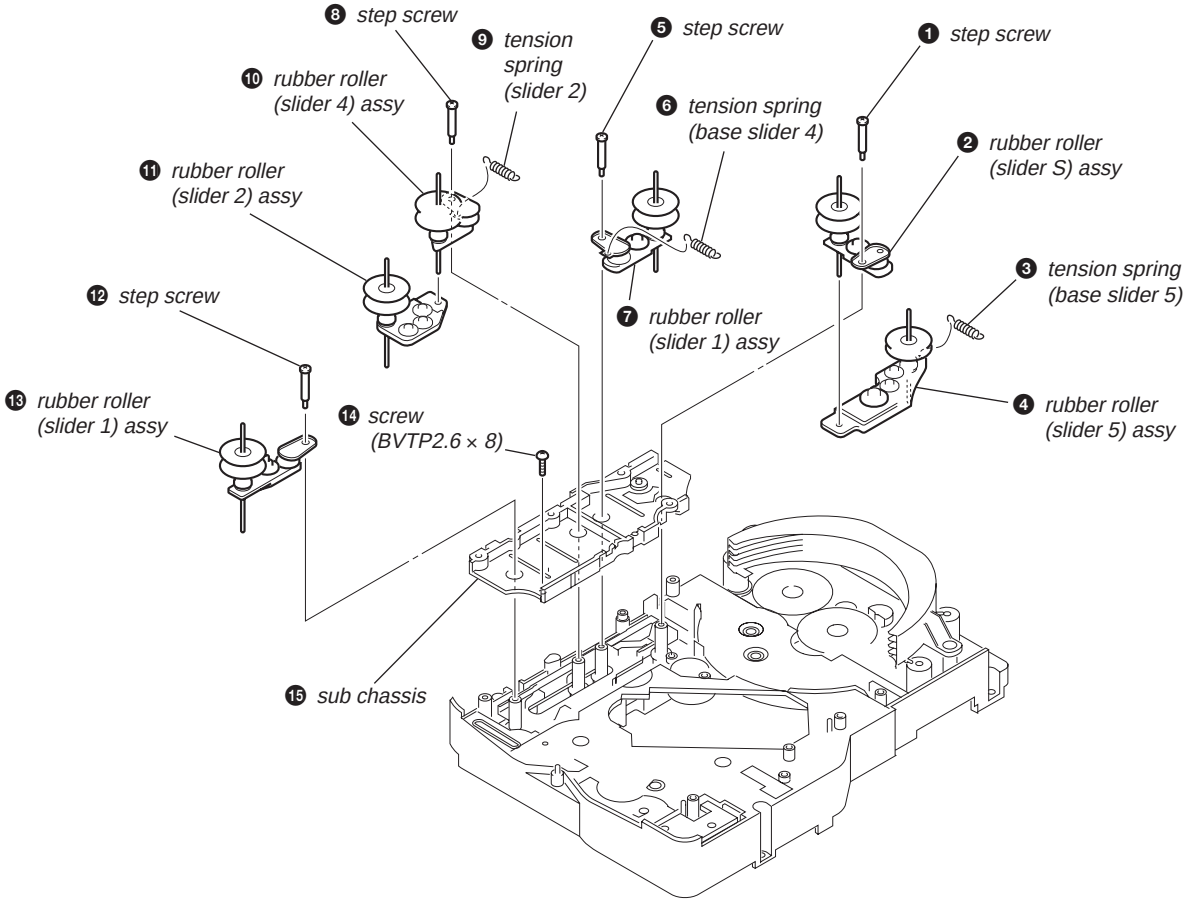
3-19. MOTOR (ROLLER) ASSY (ROLLER) (M781)



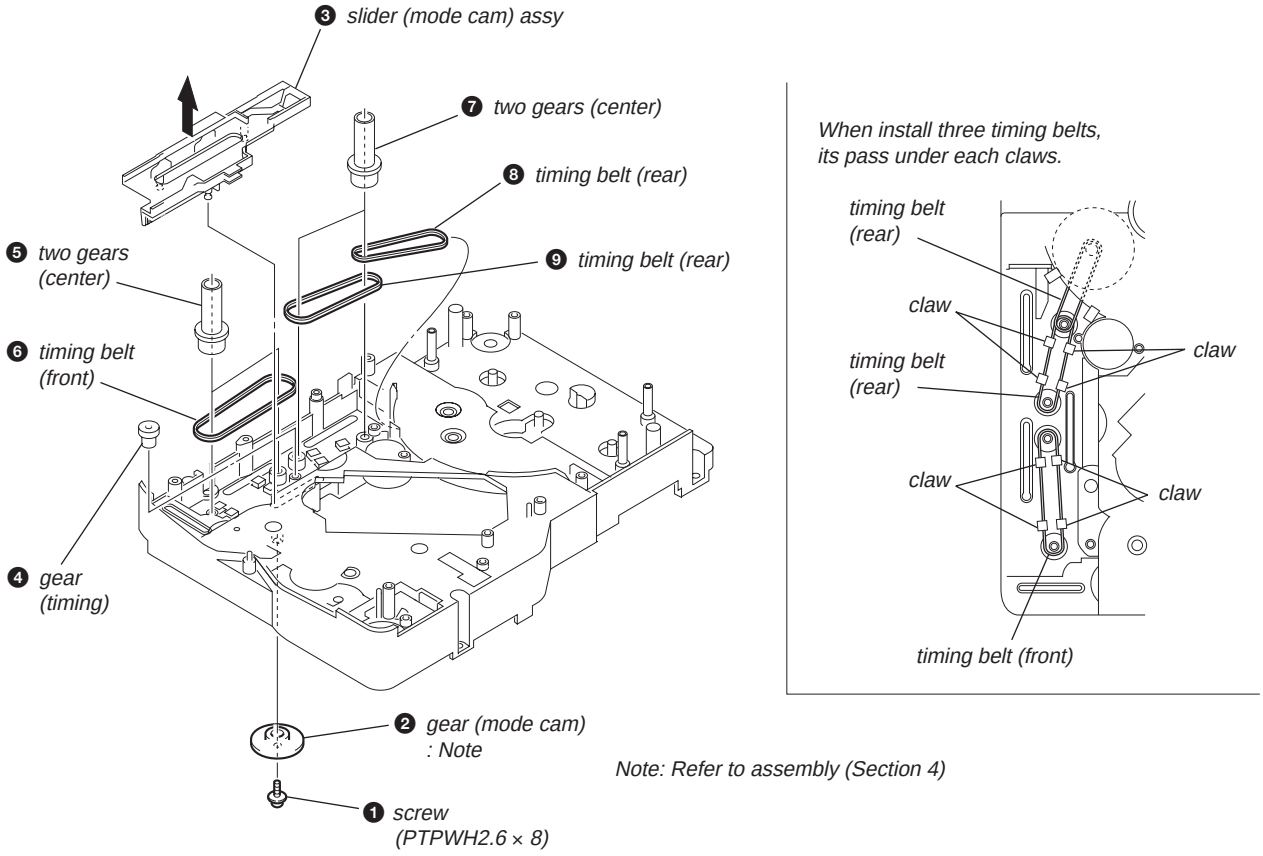
3-20. MOTOR (MODE) ASSY (MODE) (M771)



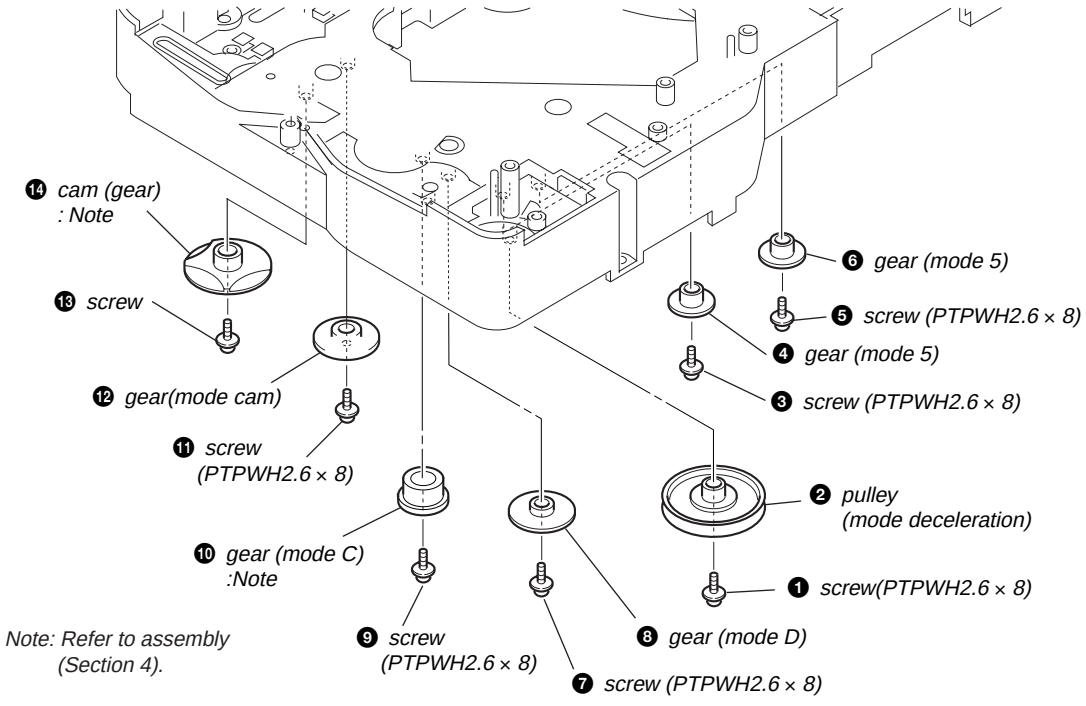
3-21. RUBBER ROLLER (SLIDER) ASSY



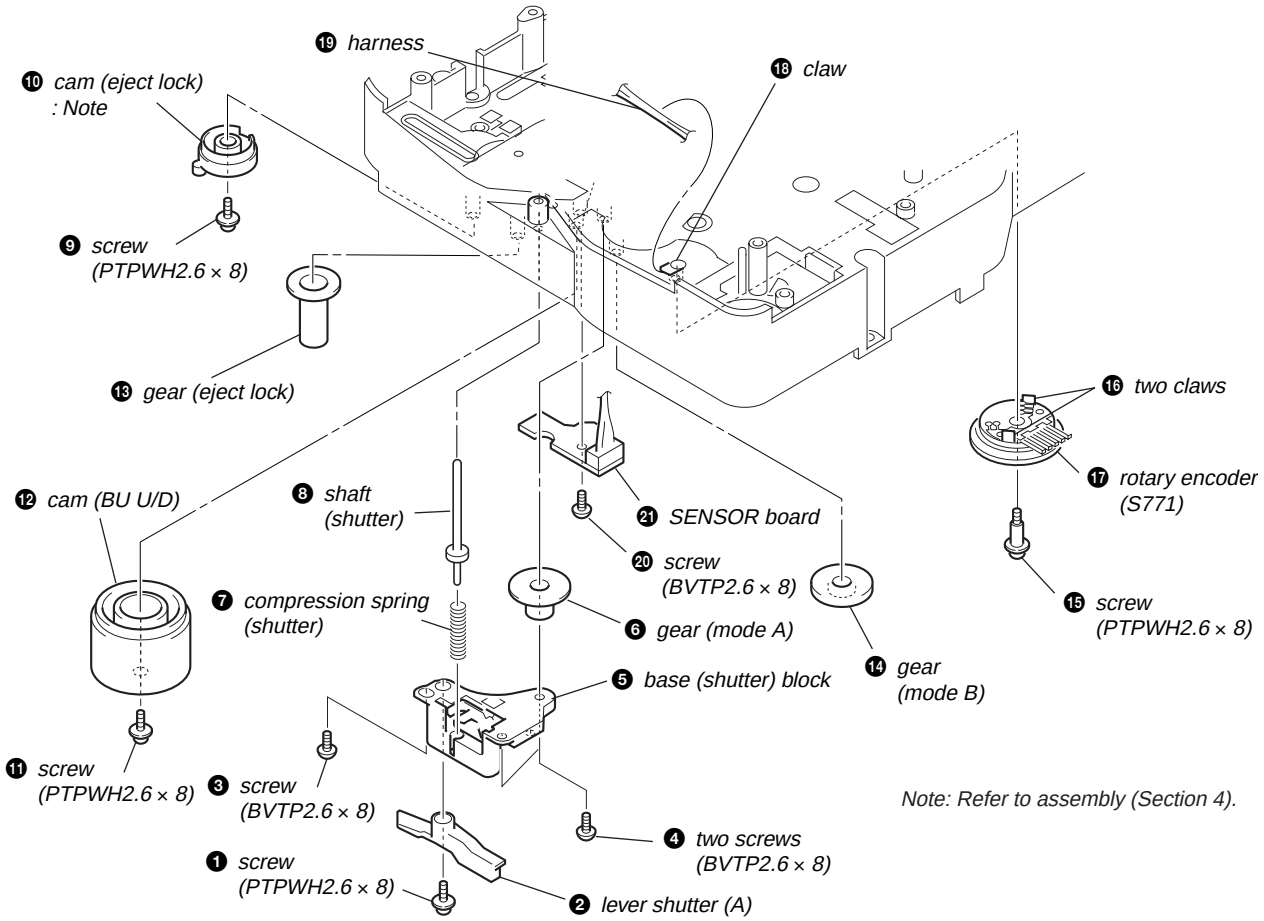
3-22. TIMING BELT (FRONT/REAR)



3-23. CAM (GEAR)


⓮ cam (gear) : Note
⓭ screw
⓬ gear(mode cam)
⓫ screw (PTPWH2.6 × 8)
❻ gear (mode 5)
❺ screw (PTPWH2.6 × 8)
❹ gear (mode 5)
❸ screw (PTPWH2.6 × 8)
❷ pulley (mode deceleration)
❶ screw(PTPWH2.6 × 8)
⓾ gear (mode C) :Note
❾ screw (PTPWH2.6 × 8)
❽ gear (mode D)
❼ screw (PTPWH2.6 × 8)
Note: Refer to assembly (Section 4).

3-24. SENSOR BOARD



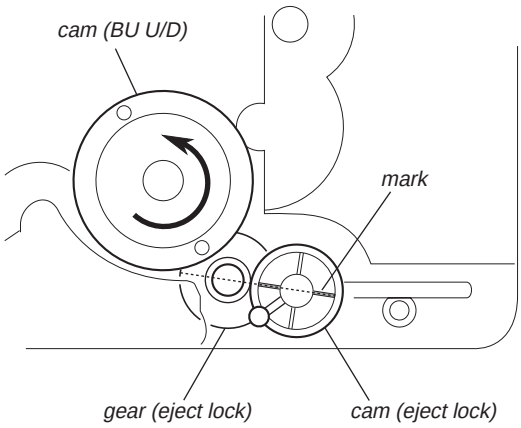
Note: Refer to assembly (Section 4).

SECTION 4
ASSEMBLY

• This set can be assembled in the order shown below.

4-1. HOW TO INSTALL THE CAM (EJECT LOCK)

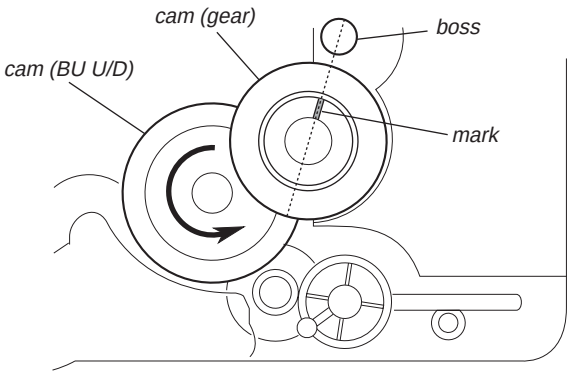
❶ *Rotate the cam (BU U/D) fully in the direction of arrow.*
❷ *Engage the gear (eject lock) and the gear of the cam (eject lock) aligning the mark with the center of the gear (eject lock).*



– bottom view • front –

4-2. HOW TO INSTALL THE CAM (GEAR)

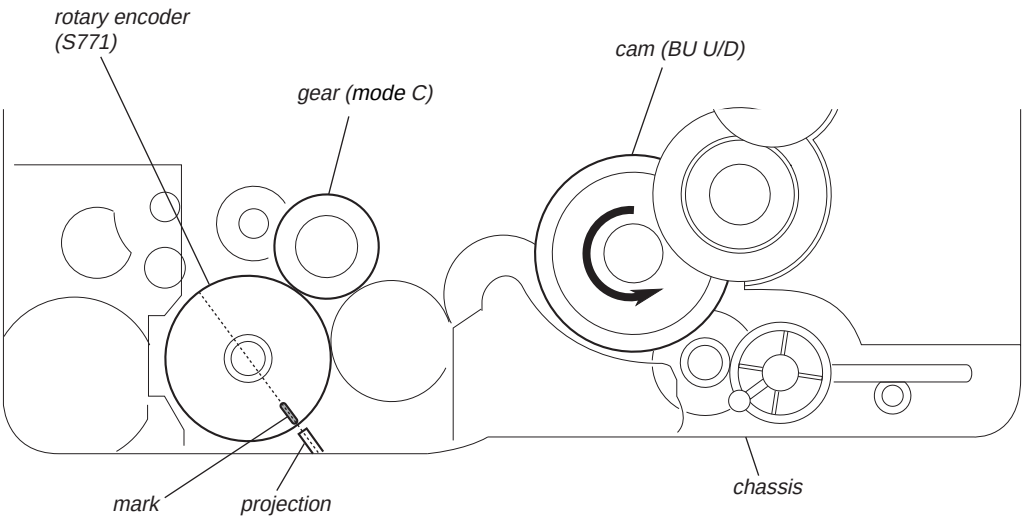
❶ *Check that the cam (BU U/D) can not be rotated in the direction of arrow.*
❷ *Align the mark on the cam (gear) with the boss as shown in the figure and install the cam (gear).*



– bottom view • front –

4-3. HOW TO INSTALL THE GEAR (MODE C)

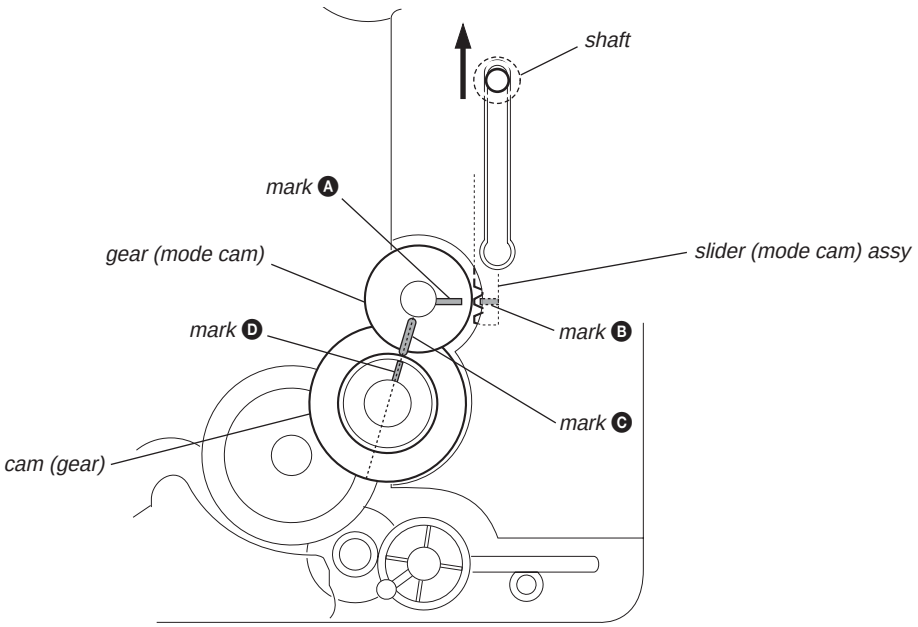
❶ *Align the mark on the rotary encoder (S771) with the projection of the assy.*
❷ *Check that the cam (BU U/D) can not be rotated in the direction of arrow.*
❸ *Install the gear (mode C)*



– bottom view • front –

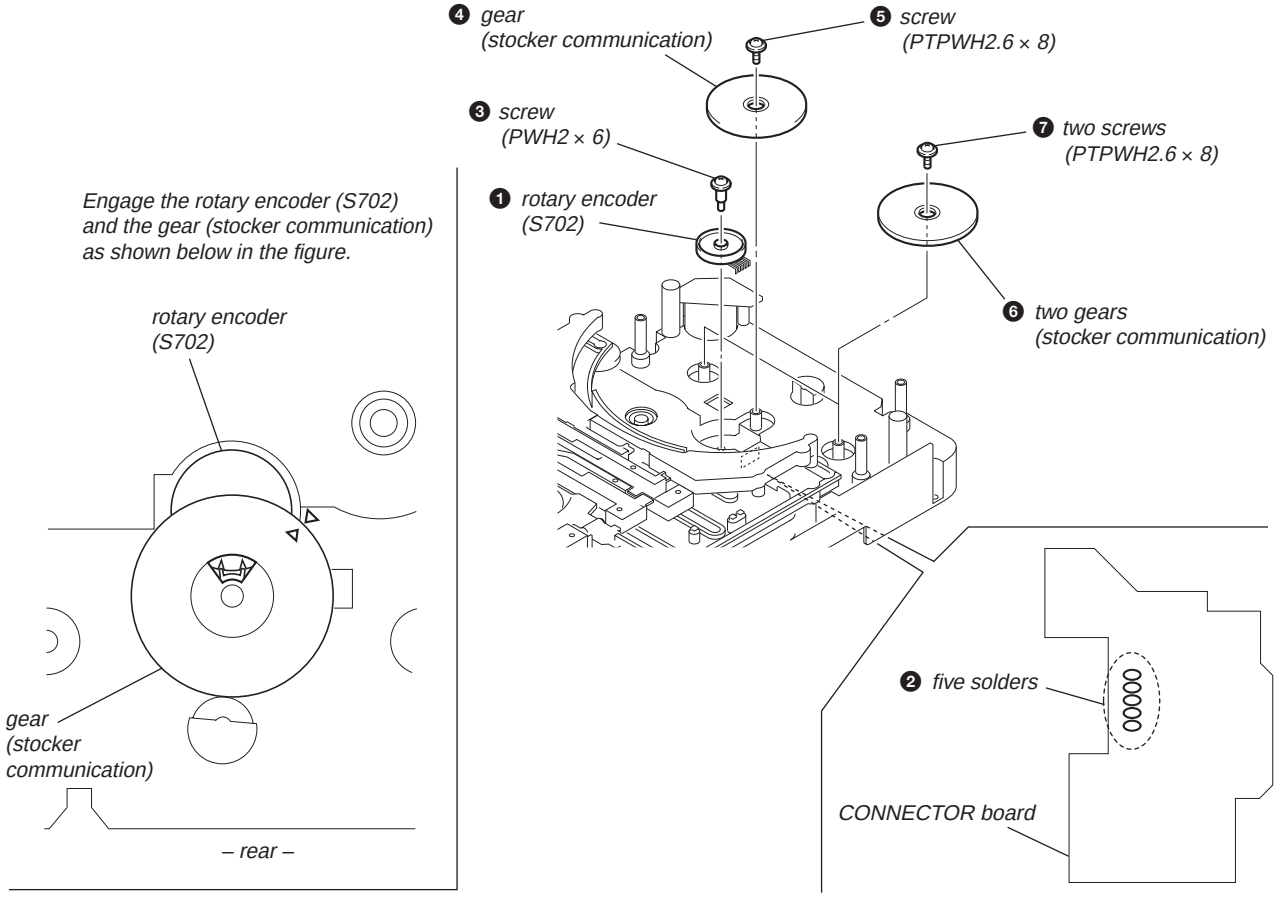
4-4. HOW TO INSTALL THE GEAR (MODE CAM)

❶ *Slide the shaft in the direction of arrow.*
❷ *Align mark Ⓐ on the gear (mode cam) with mark Ⓑ on the slider (mode cam) assy, then install the gear (mode cam).*
❸ *Check that mark Ⓒ on the gear (mode cam) is in alignment with mark Ⓓ on the cam (gear).*

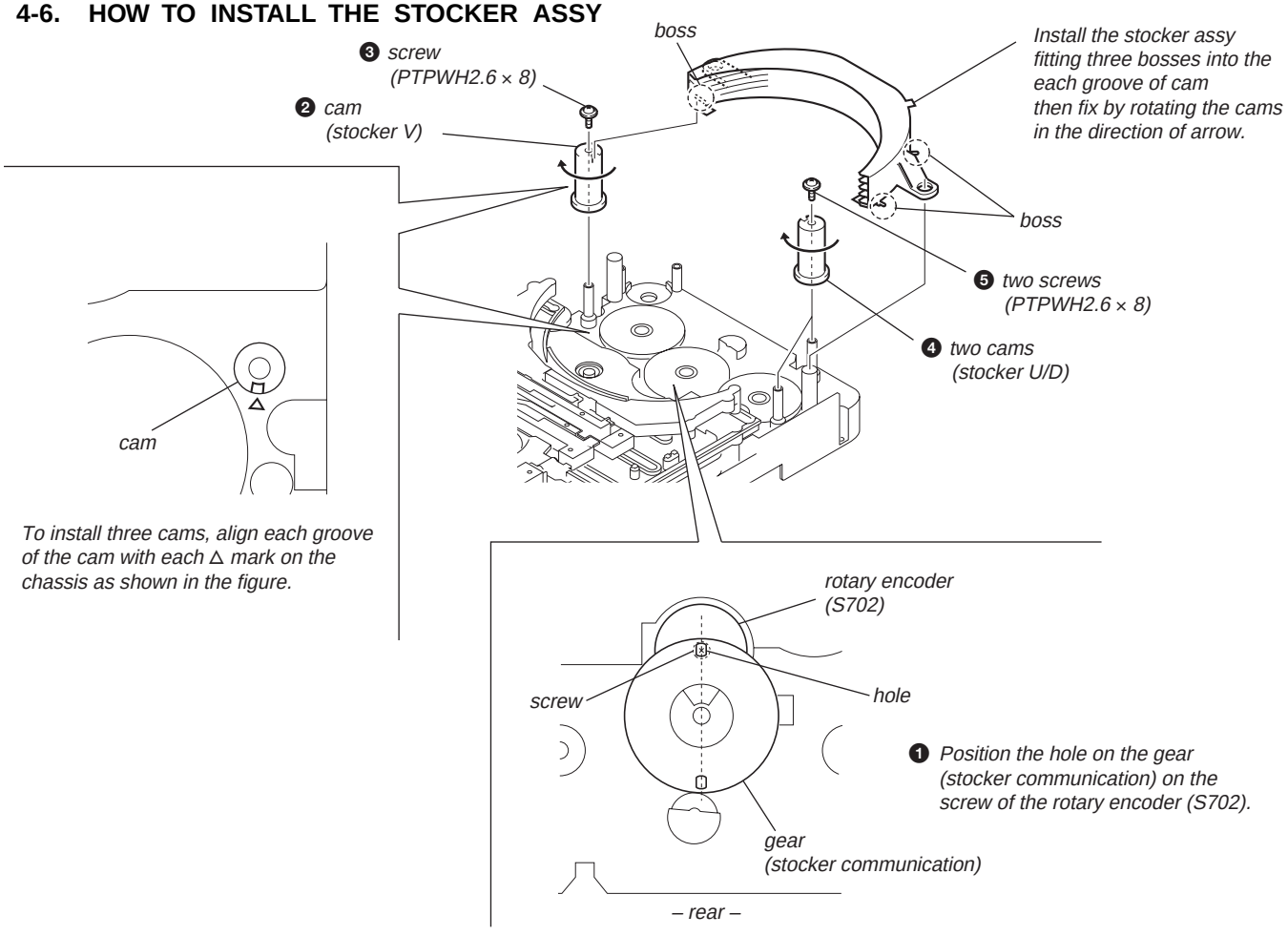


– bottom view • front –

4-5. HOW TO INSTALL THE ROTARY ENCODER (S702), GEAR (STOCKER COMMUNICATION)



4-6. HOW TO INSTALL THE STOCKER ASSY


❸ screw
(PTPWH2.6 × 8)
boss
Install the stocker assy fitting three bosses into the each groove of cam then fix by rotating the cams in the direction of arrow.
❷ cam
(stocker V)
boss
❺ two screws
(PTPWH2.6 × 8)
❹ two cams
(stocker U/D)
cam
To install three cams, align each groove of the cam with each △ mark on the chassis as shown in the figure.
rotary encoder
(S702)
screw
hole
❶ Position the hole on the gear (stocker communication) on the screw of the rotary encoder (S702).
gear
(stocker communication)
– rear –

SECTION 5
TEST MODE

[Cold Reset]

* The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press the [POWER ⏻] button to turn off the main power.
2. While depressing the [■] button, press the [POWER ⏻] button.
3. The fluorescent indicator tube does not display any message and the set is reset.

[Version Display Mode]

* The version of the microcomputer is displayed.

Procedure:

1. Press the [POWER ⏻] button to turn the set on.
2. To enter the test mode, press two buttons [■] and [POWER ⏻] simultaneously for more than five seconds. The version of the microcomputer is displayed.

[FL Tube Check]

* All fluorecent segments are tested.

Procedure:

1. Insert a disc, and extract an AC plug.
2. While depressing the [FUNCTION] button, insert an AC plug to enter the test mode.
3. The message "CD TEST" is displayed, the initialization is performed.

Then all segments of the fluorecent indicator tube are turned on.

[CD Ship Mode]

* This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the [POWER ⏻] button to turn the set on.
2. Set the FUNCTION to CD.
3. Press the [■] button for more than five seconds.
4. After a message "MECHA LOCK" is displayed on the fluorescent indicator tube, the CD ship mode is set and the power is turned off.

[Disc Tray Lock]

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure :

1. Press the [POWER ⏻] button to turn the set on.
2. Press two buttons of [■] and [⏏] simultaneously for five seconds.
3. The message "LOCKED" is displayed and the tray is locked.

Releasing Procedure :

1. Press two buttons of [■] and [⏏] simultaneously for five seconds again.
2. The message "UNLOCKED" is displayed and the tray is unlocked.

Note : When "LOCKED" is displayed, the tray lock is not released by turning power on/off with the [POWER ⏻] button.

[AMP Test]

* This mode is used to check the function of the amplifier.

Procedure:

1. Extract an AC plug.
2. While depressing the [GEQ] button, insert an AC plug to enter the AMP test mode. The message "AMP TEST" is displayed.
3. The message "Volume MAX" is displayed, when the [VOLUME] knob is rotated clockwise. The message "Volume 0" is displayed, when the [VOLUME] knob is rotated counterclockwise.
4. Each time the [BASE] or [TREBLE] knob is turned, the message "EQ MAX", "EQ MIN" or "EQ FLAT" is displayed in this order.

[AM Channel Step 9 kHz/10kHz Selection Mode]

* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.

Procedure:

1. Set the FUNCTION to AM.
2. While depressing the [BAND] button, press the [POWER ⏻] button.
3. The channel step is changed over.

[CD Test Mode]

* This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pickup.

Procedure:

1. Extract an AC plug.
2. While depressing the [FUNCTION] button, insert an AC plug to enter the CD test mode. The message "CD TEST" is displayed.
3. With the CD in stop status, press the [▶▶I] button to move the pickup to outside track, or press the [I◀◀] button to inside track.
4. When press the [▶] button, normal playback is performed.
5. Each time the [▶] button is pressed during normal playback, the tracking servo is switched on or off.

[CD Repeat 5 Times Limit Release Mode]

Procedure:

1. Press the POWER ⏻ button to turn the set on.
2. Select the FUNCTION to CD.
3. Press three buttons of [■] and [FUNCTION] and [▶] simultaneously.
4. The repeat all mark blinks and then repeat 5 times limit is released.

SECTION 6
MECHANICAL ADJUSTMENTS

• TAPE MECHANISM DECK SECTION

Note: Tape deck is not loaded in US model.

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback heads — pinch rollers
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
FWD back tension	CQ-102C	0.15 – 0.6 mN • m 2 to 6 g • cm (0.03 – 0.08 oz • inch)
REV	CQ-102RC	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
REV back tension	CQ-102RC	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
FF/REV	CQ-201B	6.86 – 17.64 mN • m (70 to 179 g • cm) (0.98 – 2.49 oz • inch)
FWD tension	CQ-403A	9.8 mN • m (100 • cm or more) (1.4 oz • inch or more)
REV tension	CQ-403R	9.8 mN • m (100 • cm or more) (1.4 oz • inch or more)

SECTION 7
ELECTRICAL ADJUSTMENTS

DECK SECTION | 0 dB = 0.775 V

Note: Tape deck is not loaded in US model.

Precaution

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

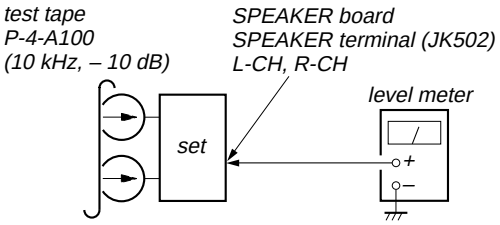
• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, – 10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Check

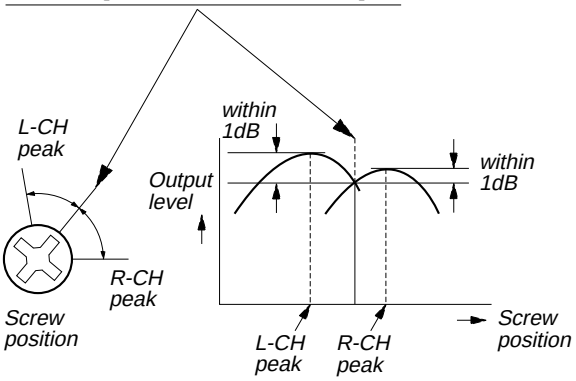
Record/Playback Head Azimuth Adjustment

Procedure:

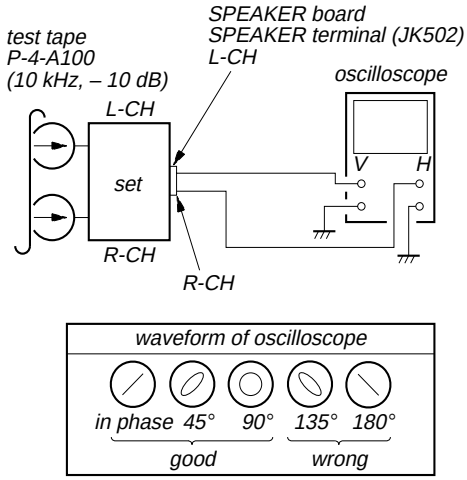
1. Mode: Playback



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.

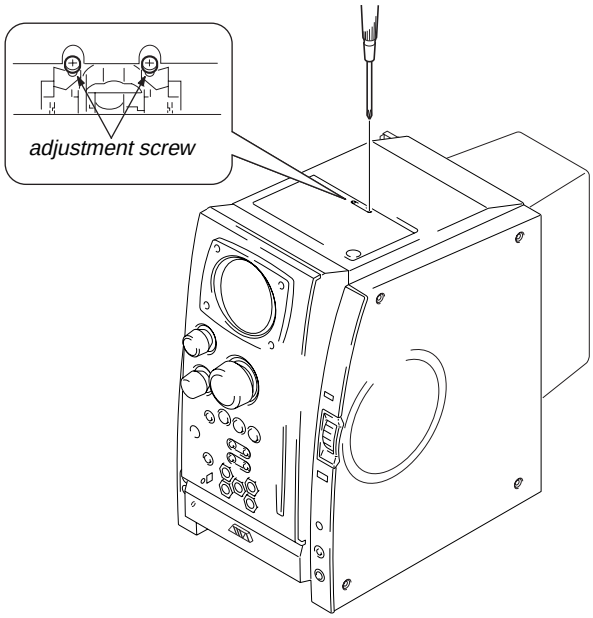


3. Mode: Playback



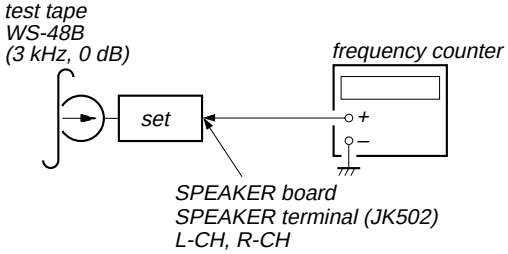
4. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location: Record/Playback/Erase Head



Tape Speed Check

Mode: Playback



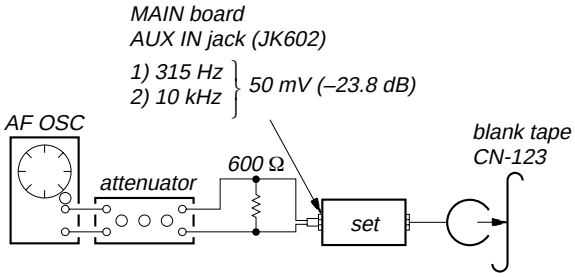
1. Insert the WS-48B into the deck.
2. Press the ▶ button.
3. Confirm that the frequency counter reads 3,000 ± 90 Hz.

Sample value of Wow and Flutter: 0.3% or less W.RMS (JIS)
(WS-48B)

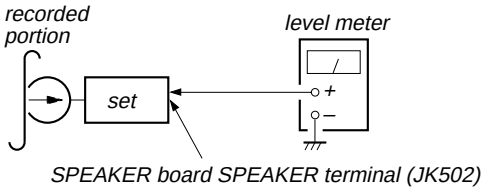
Record Bias Adjustment

Procedure:

1. Record mode



2. Mode: Playback
   i-Bass OFF
   BASS 0
   TREBLE 0

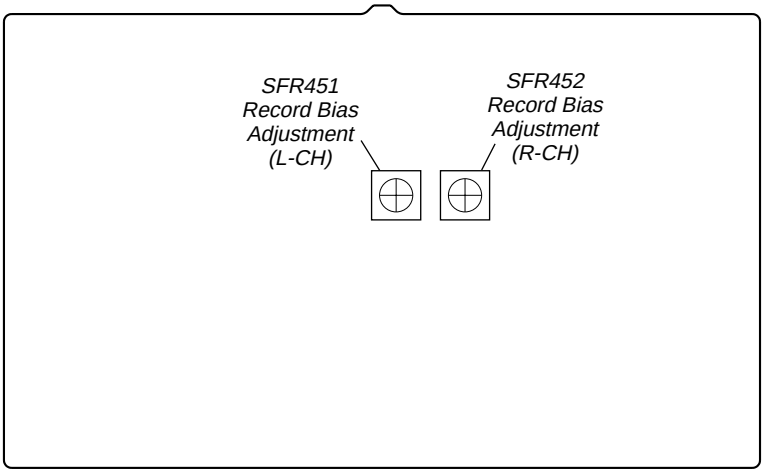


3. Confirm playback the signal recorded in step 1 become adjustment level as follows.
4. If these levels do not adjustment level, adjustment the SFR451 (L-CH) and SFR452 (R-CH) to repeat steps 1 and 4.

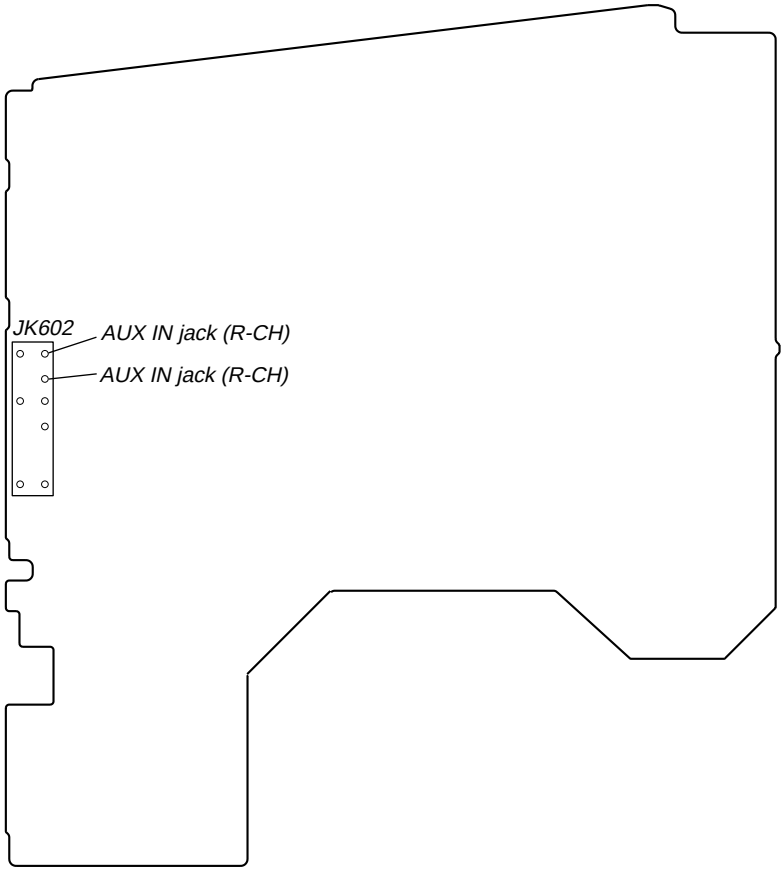
Adjustment level: Playback output of 315 Hz to playback output
of 10 kHz: 0 ± 1.0 dB (0 ± 4.5mV).

Adjustment Location: DECK board (Page 27)

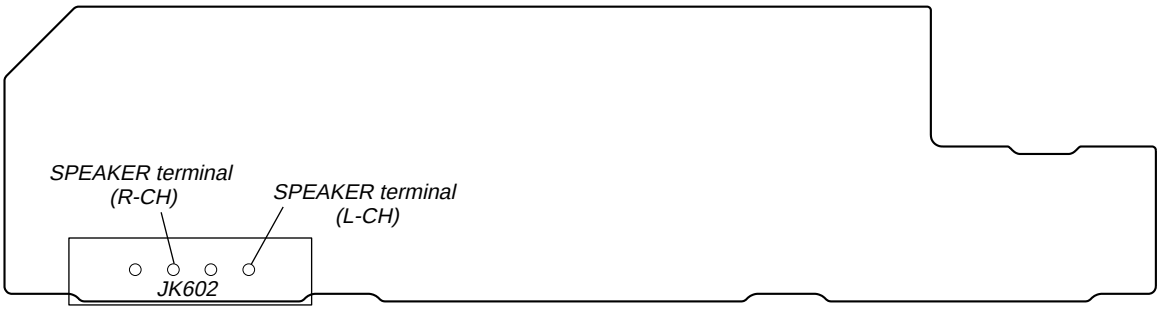
– DECK Board (Component Side) (Except US model) –



– MAIN Board (Conductor Side) –



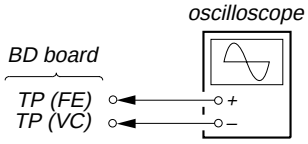
– SPEAKER Board (Conductor Side) –



CD SECTION

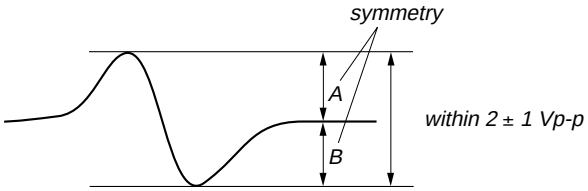
Note:
1. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
2. Use an oscilloscope with more than 10MΩ impedance.
3. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S-curve Check
Connection:



Procedure:
1. Connect an oscilloscope to test point TP (FE) and TP (VC) on the BD board.
2. While depressing the ▶ button, insert an AC plug.
3. Put the disc (YEDS-18) in and press the ■ button and actuate the focus search. (actuate the focus search when disc table is moving in and out)
4. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2 ± 1 Vp-p.

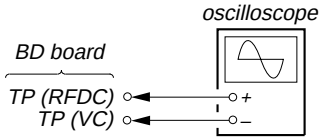
S-curve waveform



Note: • Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

Checking Location: BD board (Side B)

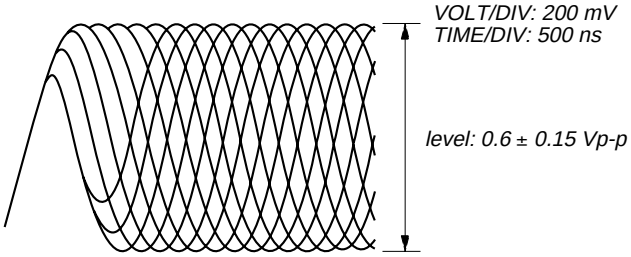
RFDC Level Check
Connection:



Procedure:
1. Connect an oscilloscope to test point TP (RFDC) and TP (VC) on the BD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFDC signal level is correct or not.

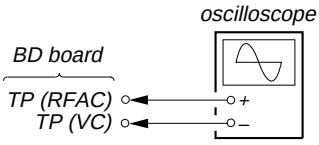
Note: A clear RFDC signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

RFDC signal waveform



Checking Location: CD board (Conductor side)

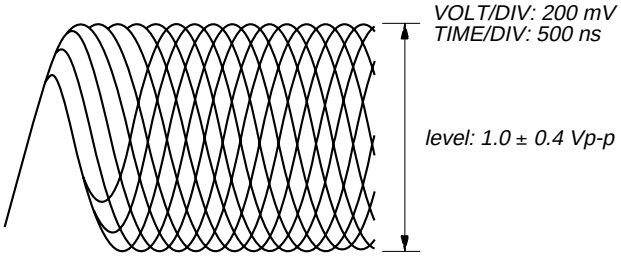
RFAC Level Check
Connection:



Procedure:
1. Connect an oscilloscope to test point TP (RFAC) and TP (VC) on the BD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

Note: A clear RFAC signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

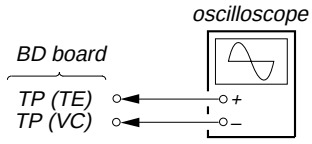
RFAC signal waveform



Checking Location: BD board (Side B)

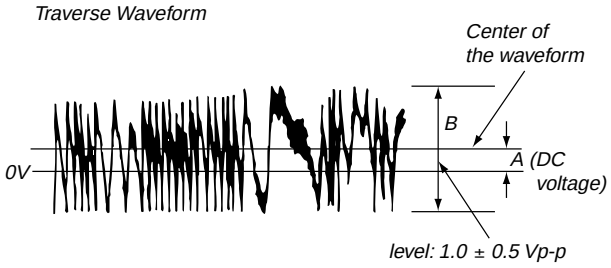
E-F Balance Adjustment

Connection:



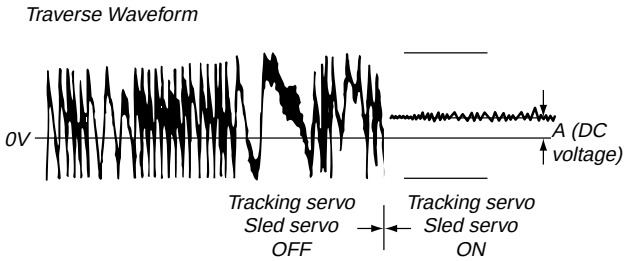
Procedure:

1. Connect an oscilloscpe to test point TP (TE) and TP (VC) on the BD board.
2. AC is put in pushing ▶ button to enter the CD test mode.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Press the ▶ button. If it plays, press the ▶ button again. (The tracking servo and the sledding servo are turned OFF)
5. Rotate RV101 on the BD board to adjust A (DC voltage) of the center of the oscilloscope waveform becomes 0 V.



6. Press the ▶ button. (The tracking servo and sledding servo are turned ON)
   Confirm A (DC voltage) at that tome is 0 V.
7. To exit from this mode, turn the power off.

Notes:
- Always move the optical pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.



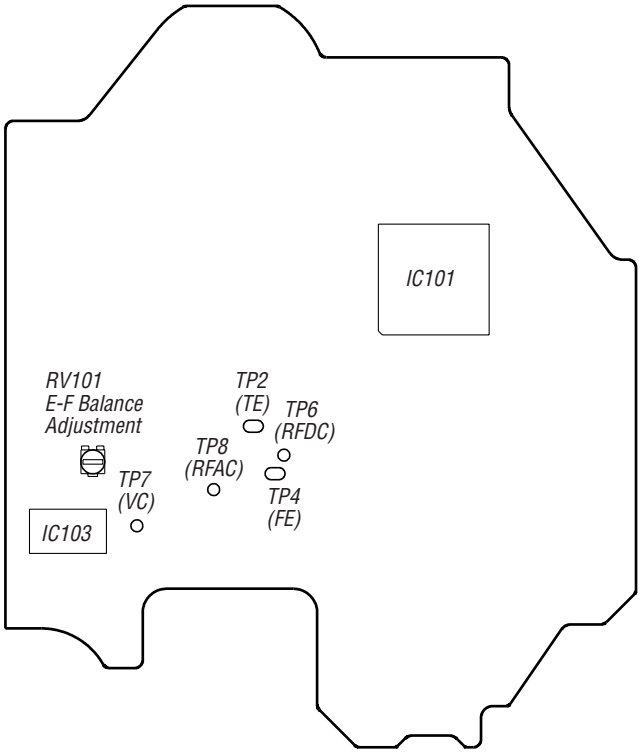
Checking Location: BD board (Side B)

Adjustment after CD Base Unit (BU-30CBD64NS) is Replaced

Perform the “E-F Balance (1 track jump) check”.

Checking Location:

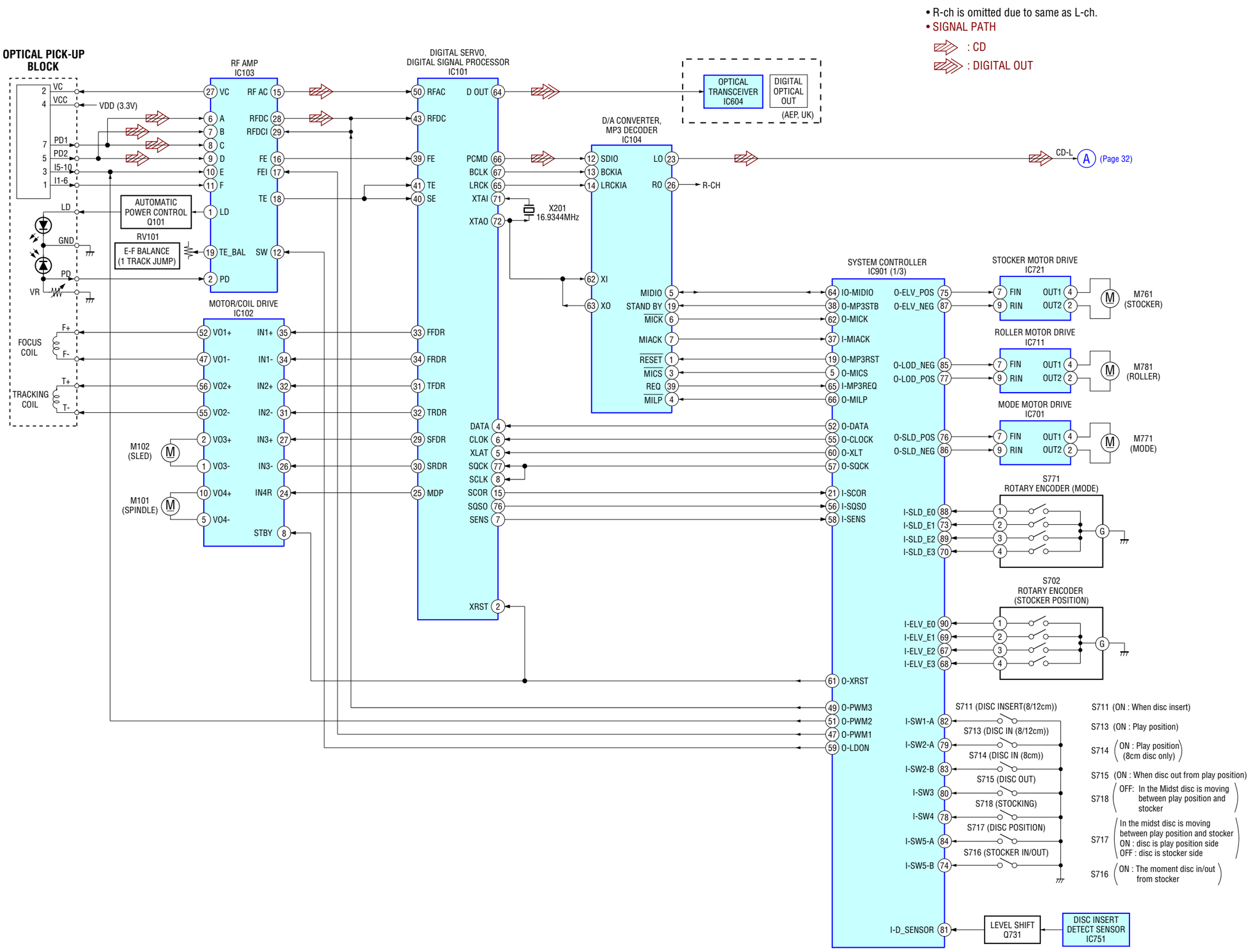
– BD BOARD (Side B) –



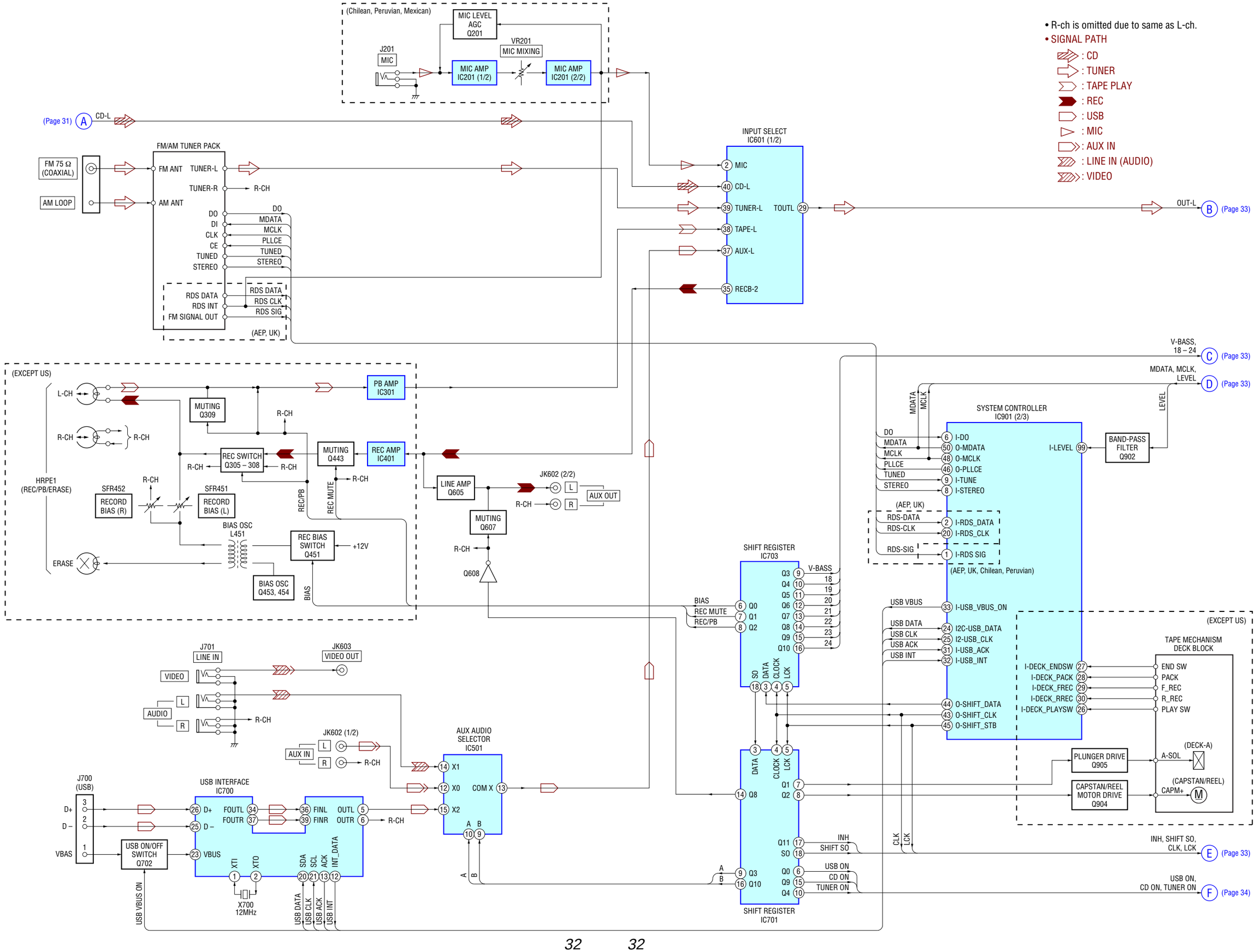
MEMO

SECTION 8
DIAGRAMS

8-1. BLOCK DIAGRAM – CD Section –

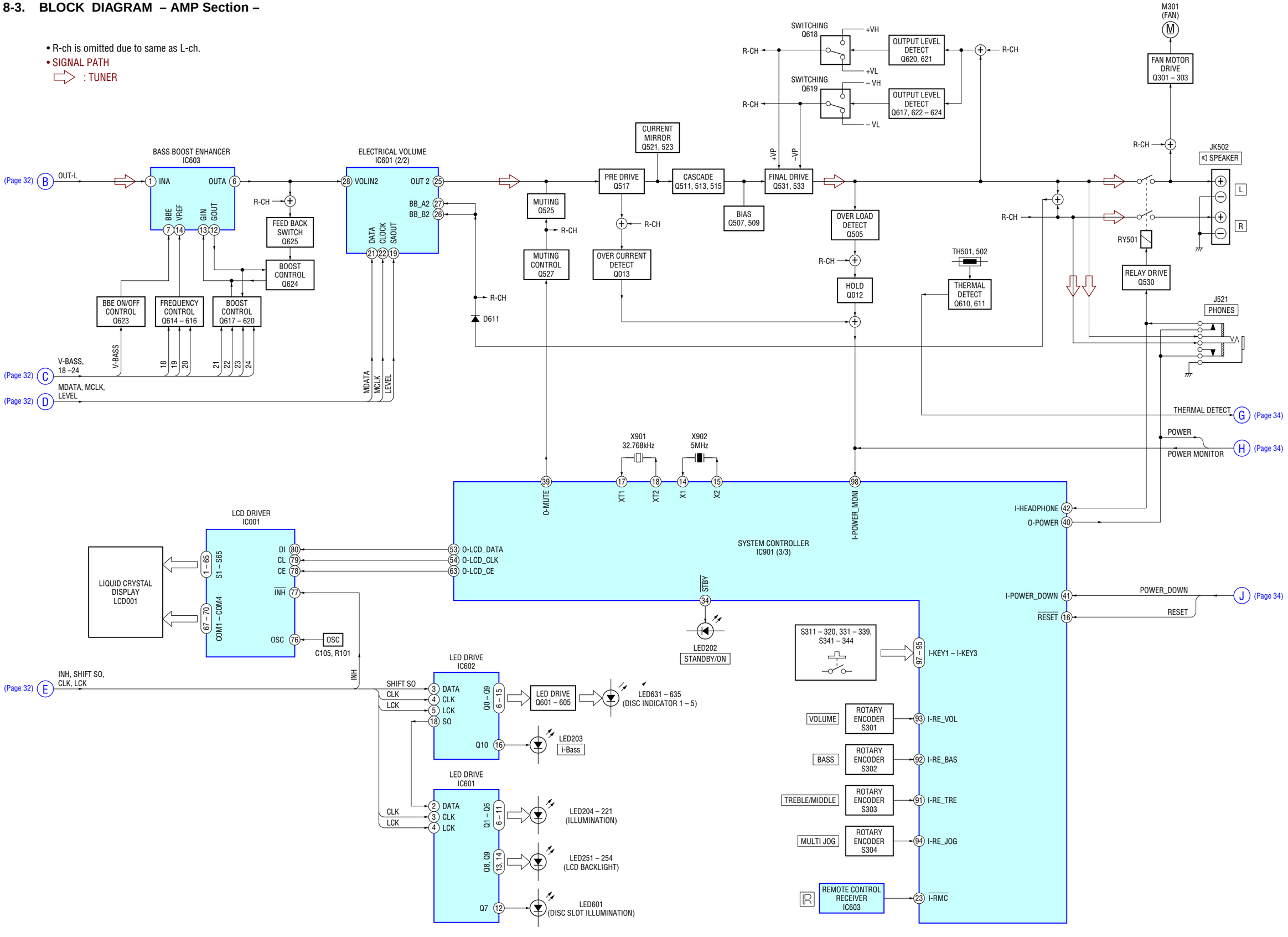

• R-ch is omitted due to same as L-ch.
• SIGNAL PATH
: CD
: DIGITAL OUT
OPTICAL PICK-UP BLOCK
RF AMP IC103
DIGITAL SERVO, DIGITAL SIGNAL PROCESSOR IC101
OPTICAL TRANSCEIVER IC604
DIGITAL OPTICAL OUT
(AEP, UK)
D/A CONVERTER, MP3 DECODER IC104
CD-L
A (Page 32)
R-CH
X201 16.9344MHz
AUTOMATIC POWER CONTROL Q101
RV101
E-F BALANCE (1 TRACK JUMP)
MOTOR/COIL DRIVE IC102
FOCUS COIL
TRACKING COIL
M102 (SLED)
M101 (SPINDLE)
SYSTEM CONTROLLER IC901 (1/3)
STOCKER MOTOR DRIVE IC721
M761 (STOCKER)
ROLLER MOTOR DRIVE IC711
M781 (ROLLER)
MODE MOTOR DRIVE IC701
M771 (MODE)
S771 ROTARY ENCODER (MODE)
S702 ROTARY ENCODER (STOCKER POSITION)
S711 (DISC INSERT(8/12cm))
S713 (DISC IN (8/12cm))
S714 (DISC IN (8cm))
S715 (DISC OUT)
S718 (STOCKING)
S717 (DISC POSITION)
S716 (STOCKER IN/OUT)
S711 (ON : When disc insert)
S713 (ON : Play position)
S714 (ON : Play position (8cm disc only))
S715 (ON : When disc out from play position)
S718 (OFF: In the Midst disc is moving between play position and stocker)
S717 (In the midst disc is moving between play position and stocker ON : disc is play position side OFF : disc is stocker side)
S716 (ON : The moment disc in/out from stocker)
LEVEL SHIFT Q731
DISC INSERT DETECT SENSOR IC751

8-2. BLOCK DIAGRAM – TUNER/TAPE/USB Section –

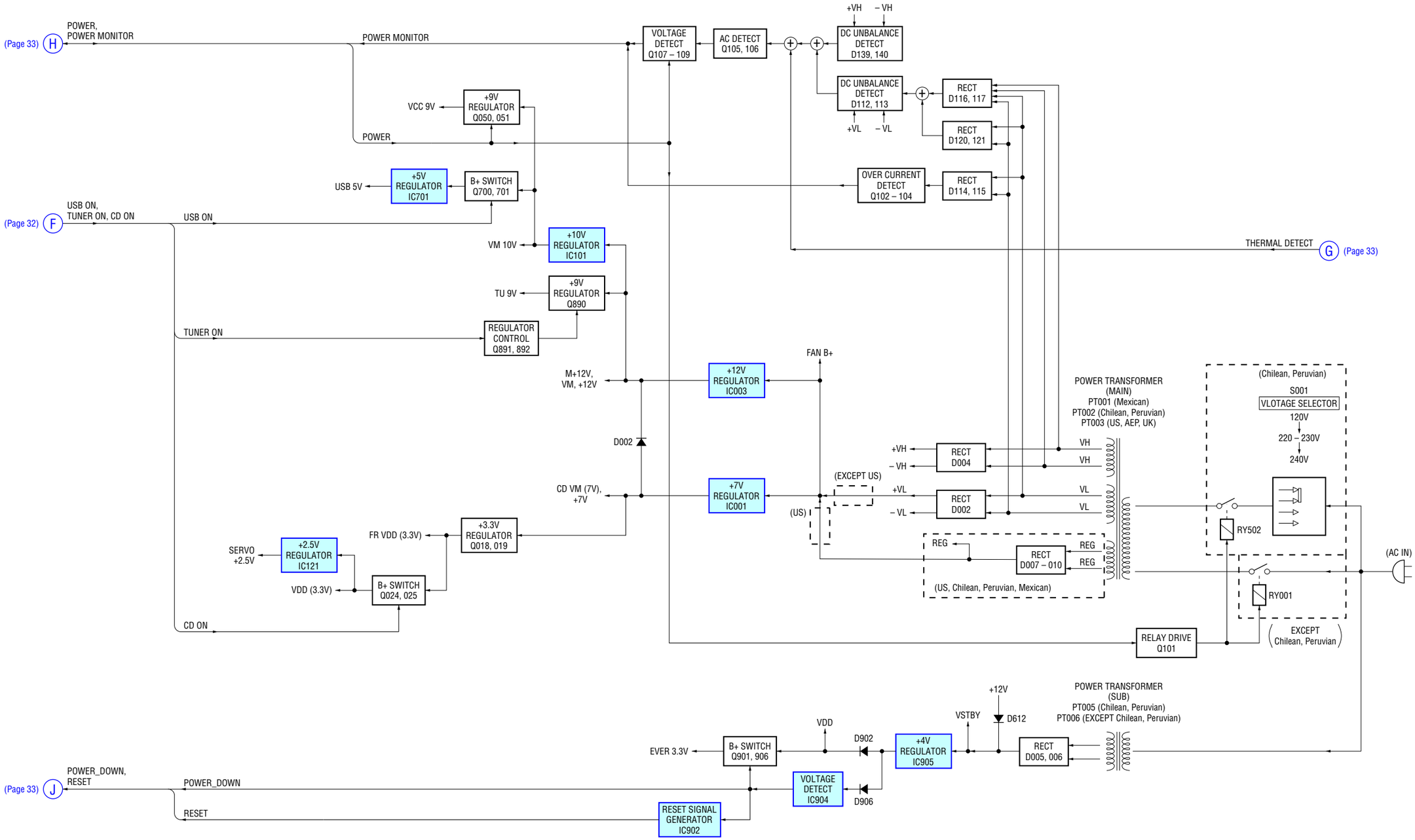


8-3. BLOCK DIAGRAM – AMP Section –

- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  ⇨ : TUNER



8-4. BLOCK DIAGRAM – POWER SUPPLY Section –



8-5. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Boards:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

Note on Schematic Diagram:

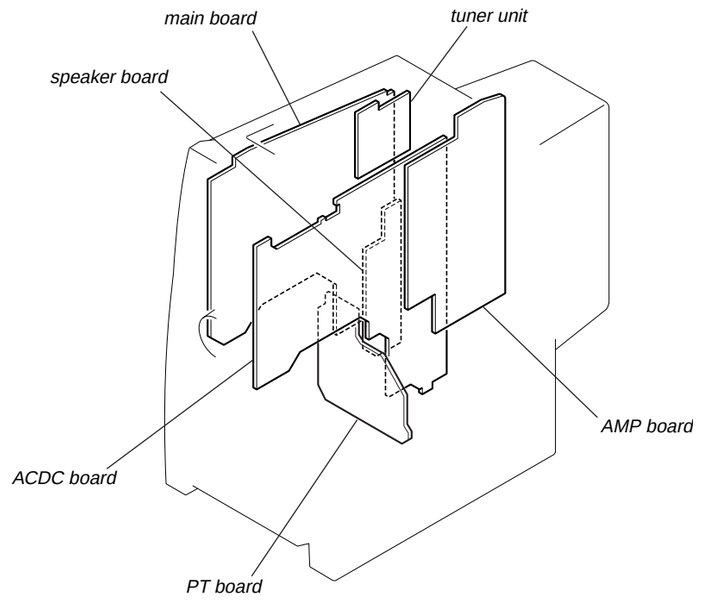
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : panel designation.

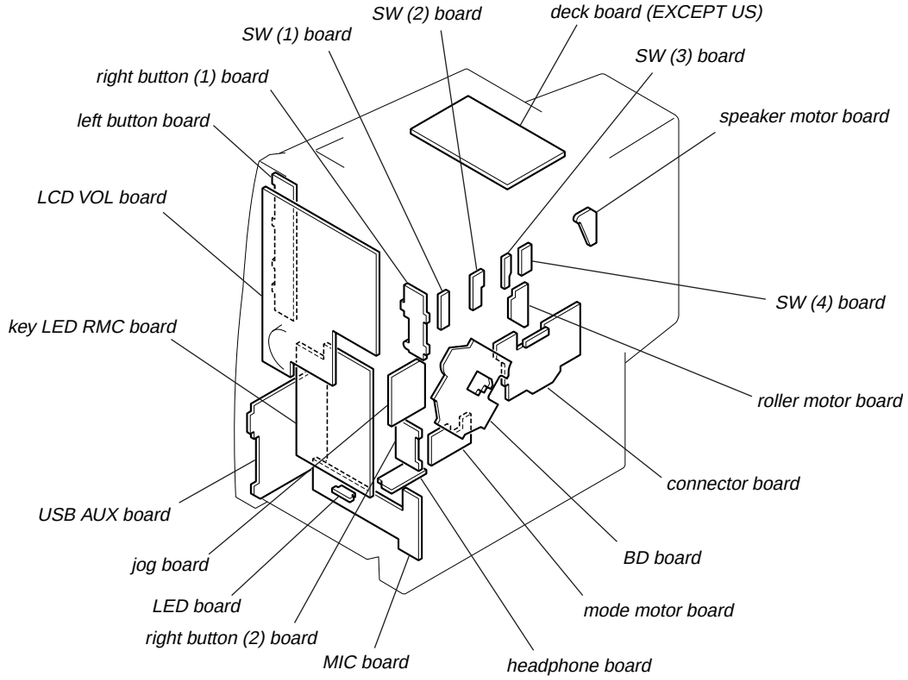
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  – BD Board –
  no mark : CD PLAY
  – DECK Board –
  no mark : TAPE PLAY
  ( ) : TAPE REC
  – USB AUX Board –
  no mark : USB
  – Other Board –
  no mark : TUNER
  ( ) : CD PLAY
  ⟨⟨ ⟩⟩ : TAPE PLAY
  { } : TAPE REC
  [ ] : USB
  ✻ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : TUNER
  : CD
  : DIGITAL OUT
  : TAPE PLAY
  : USB
  : REC
  : MIC
  : AUX IN
  : LINE IN (AUDIO)
  : VIDEO

Abbreviation
E51 : Chilean and Peruvian models
MX : Mexican model

- **Circuit Boards Location**

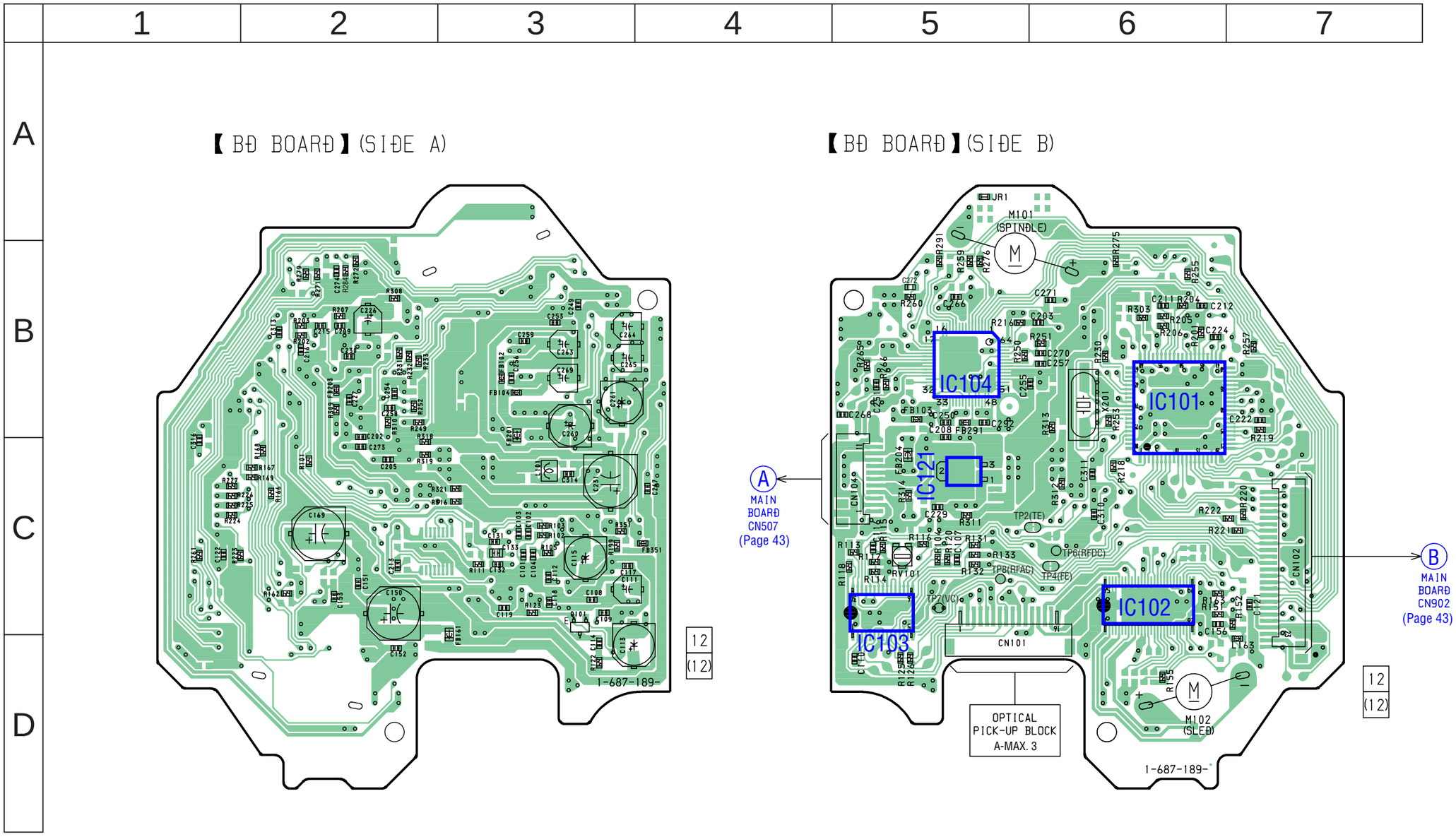




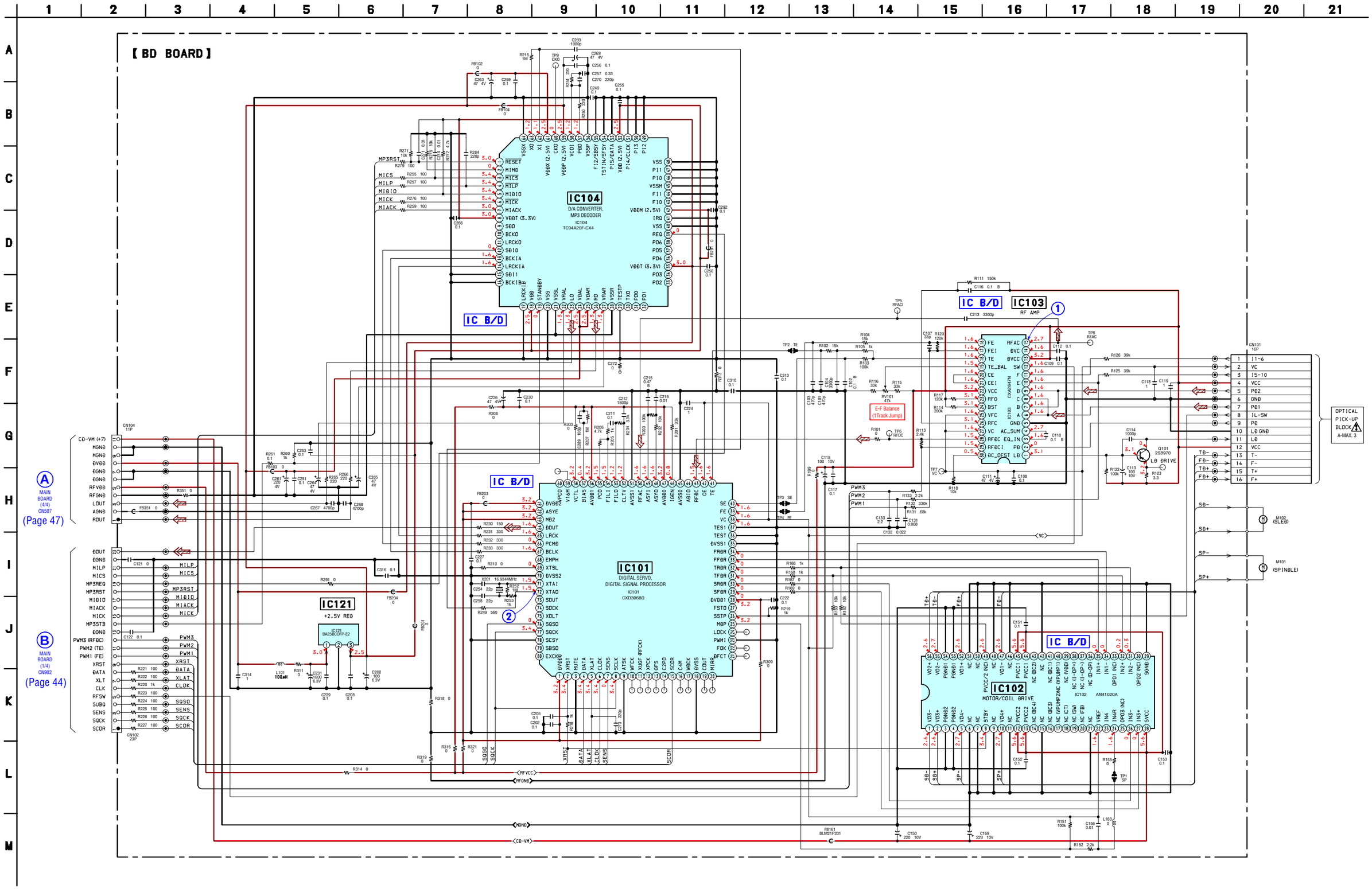
8-6. PRINTED WIRING BOARD – BD Board – • See page 35 for Circuit Boards Location. :Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location
IC101	B-6
IC102	C-6
IC103	C-5
IC104	B-5
IC121	C-5
Q101	C-3

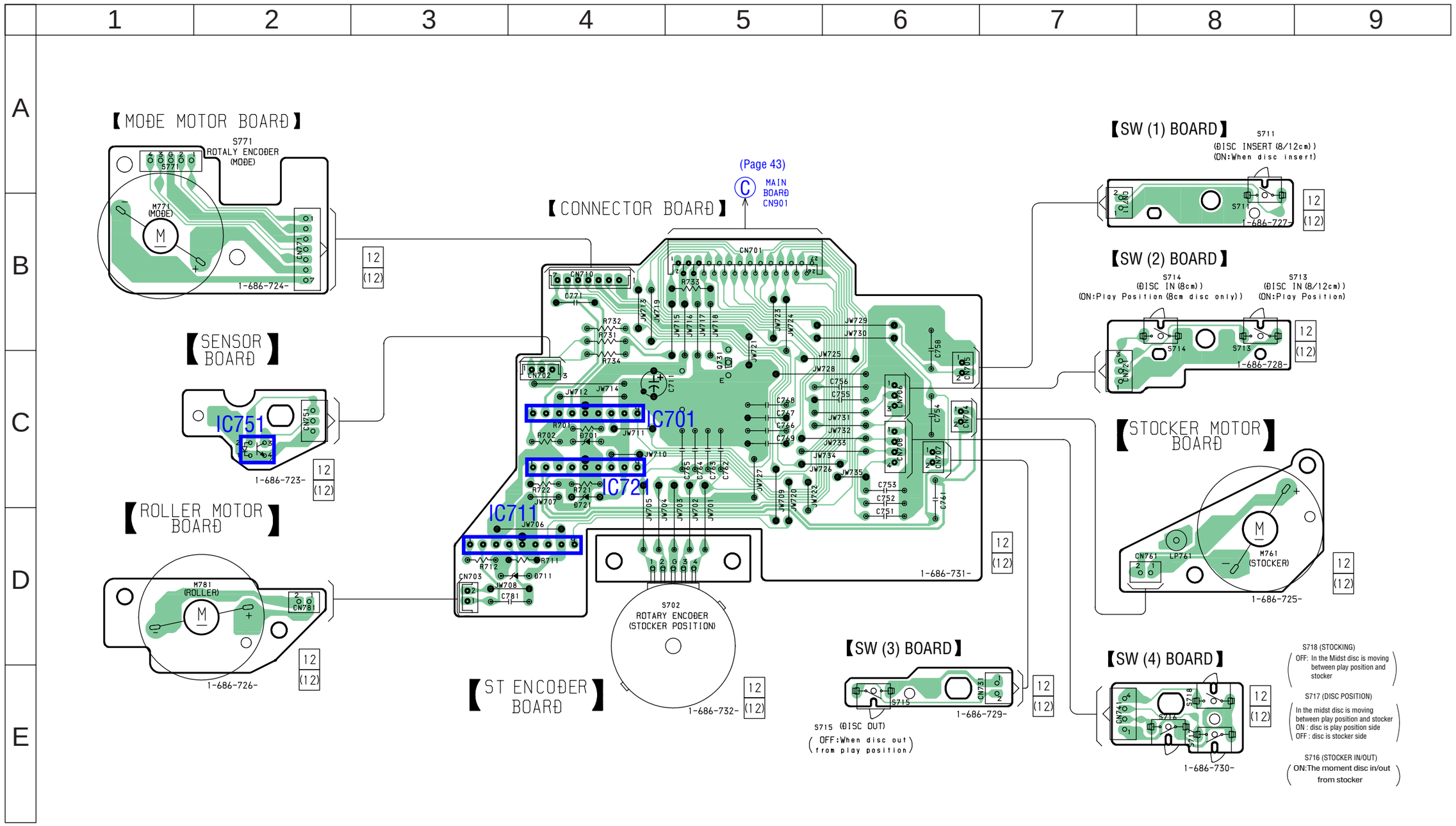


8-7. SCHEMATIC DIAGRAM – BD Board – • See page 42 for Waveforms. • See page 68 for IC Block Diagrams.



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

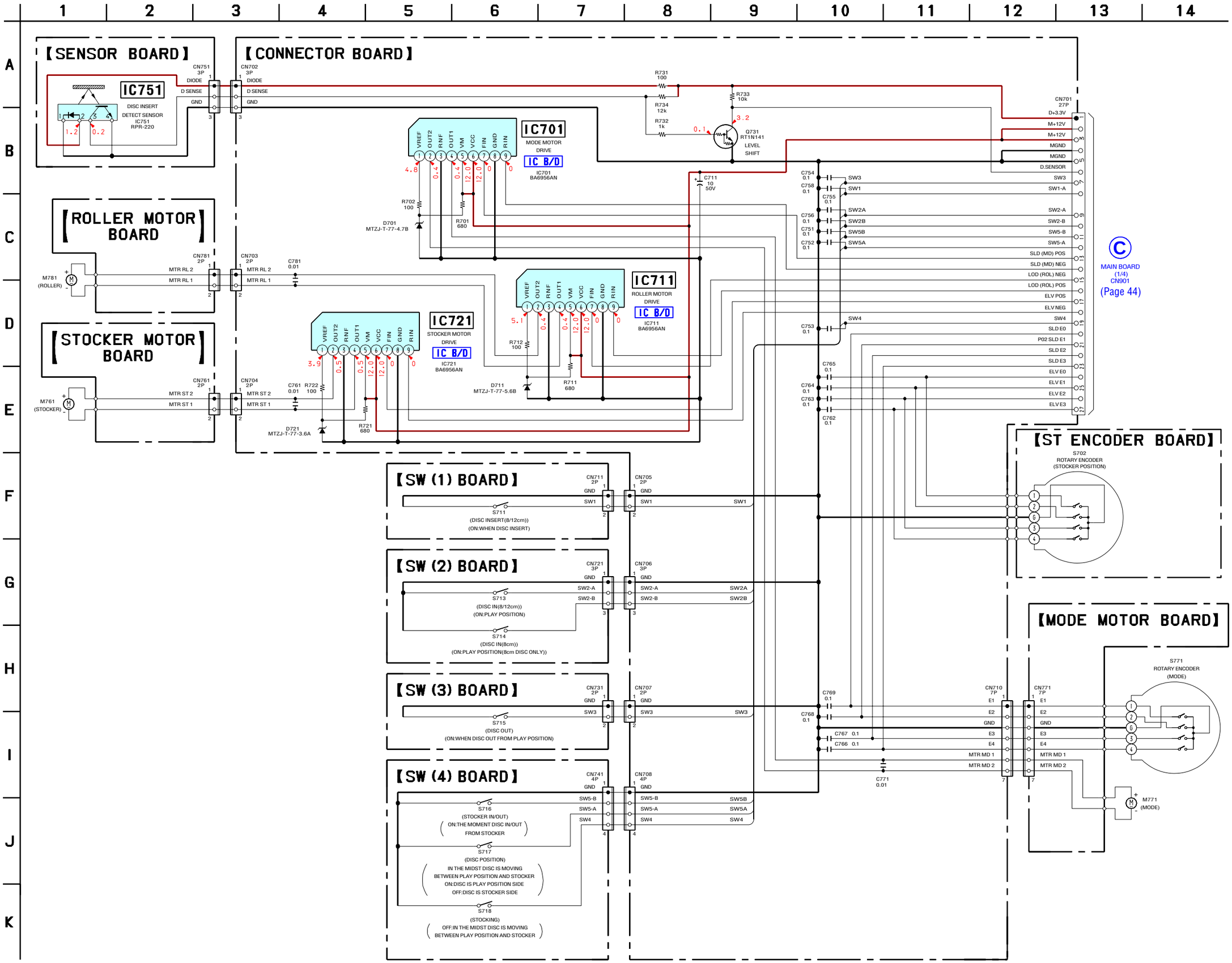
8-8. PRINTED WIRING BOARDS – CHANGER Section – • See page 35 for Circuit Boards Location. :Uses unleaded solder.



- **Semiconductor Location**

Ref. No.	Location
D701	C-4
D711	C-4
D721	C-4
IC701	C-4
IC711	D-4
IC721	C-4
IC751	C-2
Q731	B-5

8-9. SCHEMATIC DIAGRAM – CHANGER Section – • See page 68 for IC Block Diagram.


【SENSOR BOARD】
IC751
DISC INSERT DETECT SENSOR
IC751 RPR-220
【CONNECTOR BOARD】
【ROLLER MOTOR BOARD】
M781 (ROLLER)
【STOCKER MOTOR BOARD】
M761 (STOCKER)
IC701 MODE MOTOR DRIVE IC B/D IC701 BA6956AN
IC711 ROLLER MOTOR DRIVE IC B/D IC711 BA6956AN
IC721 STOCKER MOTOR DRIVE IC B/D IC721 BA6956AN
Q731 RT1N141 LEVEL SHIFT
D701 MTZJ-T-77-4.7B
D711 MTZJ-T-77-5.6B
D721 MTZJ-T-77-3.6A
【SW (1) BOARD】
S711 (DISC INSERT(8/12cm)) (ON:WHEN DISC INSERT)
【SW (2) BOARD】
S713 (DISC IN(8/12cm)) (ON:PLAY POSITION)
S714 (DISC IN(8cm)) (ON:PLAY POSITION(8cm DISC ONLY))
【SW (3) BOARD】
S715 (DISC OUT) (ON:WHEN DISC OUT FROM PLAY POSITION)
【SW (4) BOARD】
S716 (STOCKER IN/OUT) (ON:THE MOMENT DISC IN/OUT FROM STOCKER)
S717 (DISC POSITION) (IN THE MIDST DISC IS MOVING BETWEEN PLAY POSITION AND STOCKER ON:DISC IS PLAY POSITION SIDE OFF:DISC IS STOCKER SIDE)
S718 (STOCKING) (OFF:IN THE MIDST DISC IS MOVING BETWEEN PLAY POSITION AND STOCKER)
【ST ENCODER BOARD】
S702 ROTARY ENCODER (STOCKER POSITION)
【MODE MOTOR BOARD】
S771 ROTARY ENCODER (MODE)
M771 (MODE)
MAIN BOARD (1/4) CN901 (Page 44)

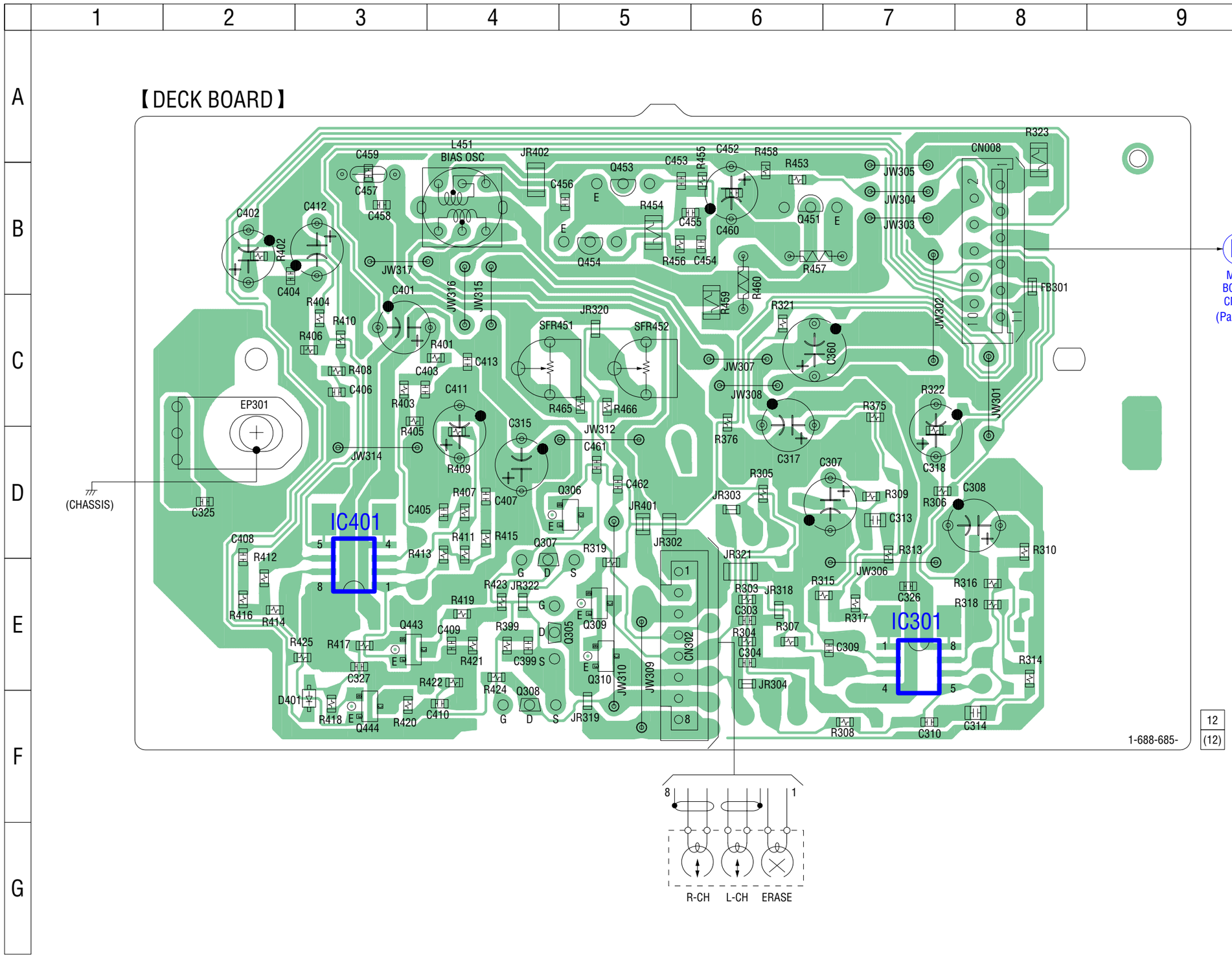
8-10. PRINTED WIRING BOARD – DECK Board (Except US model) –

• See page 35 for Circuit Boards Location.

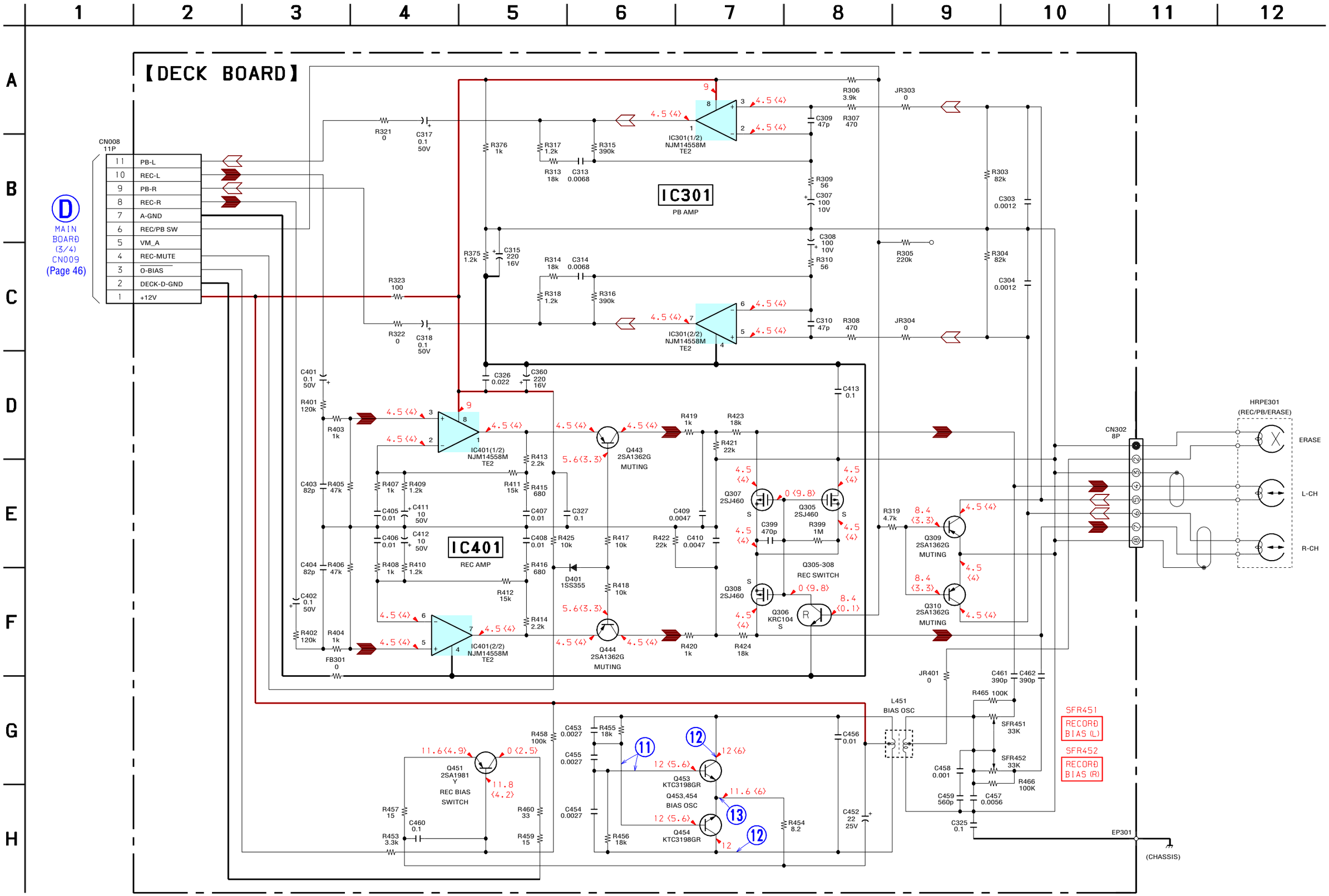
:Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location
D401	F-3
IC301	E-7
IC401	E-3
Q305	E-4
Q306	D-5
Q307	E-4
Q308	F-4
Q309	E-5
Q310	E-5
Q443	E-3
Q444	F-3
Q451	B-6
Q453	B-5
Q454	B-5



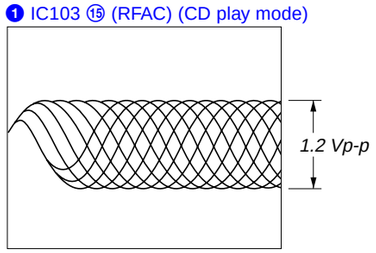
8-11. SCHEMATIC DIAGRAM – DECK Board (Except US model) – • See page 42 for Waveforms.



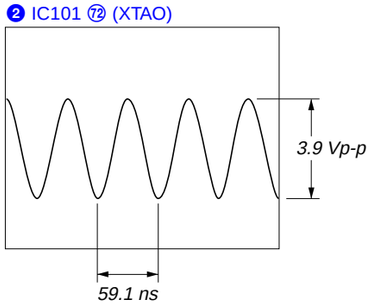
• **Waveforms**

– BD Board –

❶ IC103 ⑮ (RFAC) (CD play mode)

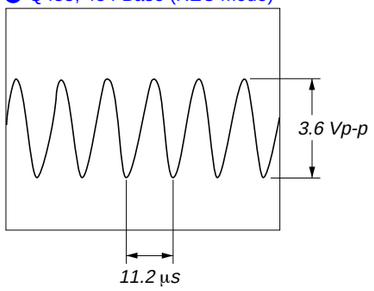


❷ IC101 ⑫ (XTAO)

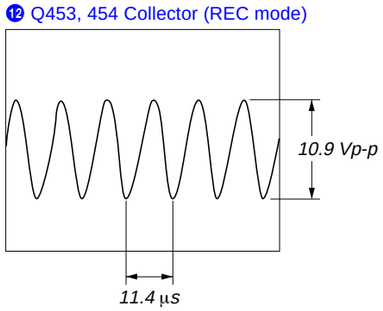


– DECK Board –

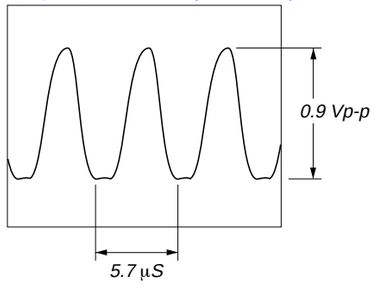
⓫ Q453, 454 Base (REC mode)



⓬ Q453, 454 Collector (REC mode)

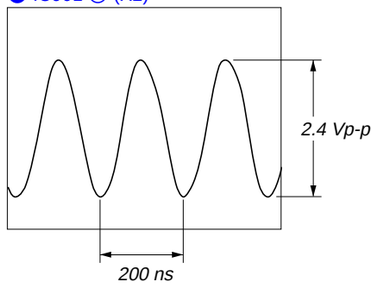


⓭ Q453, 454 Emitter (REC mode)

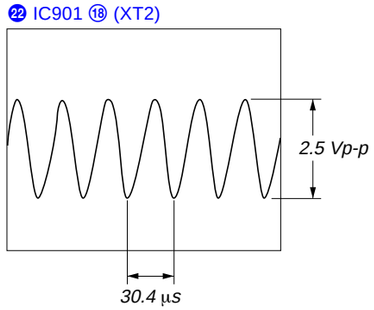


– MAIN Board –

㉑ IC901 ⑮ (X2)

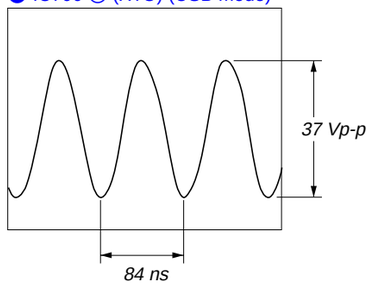


㉒ IC901 ⑱ (XT2)



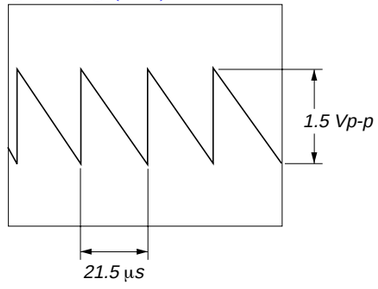
– USB AUX Board –

㉛ IC700 ② (XTO) (USB mode)



– LCD VOL Board –

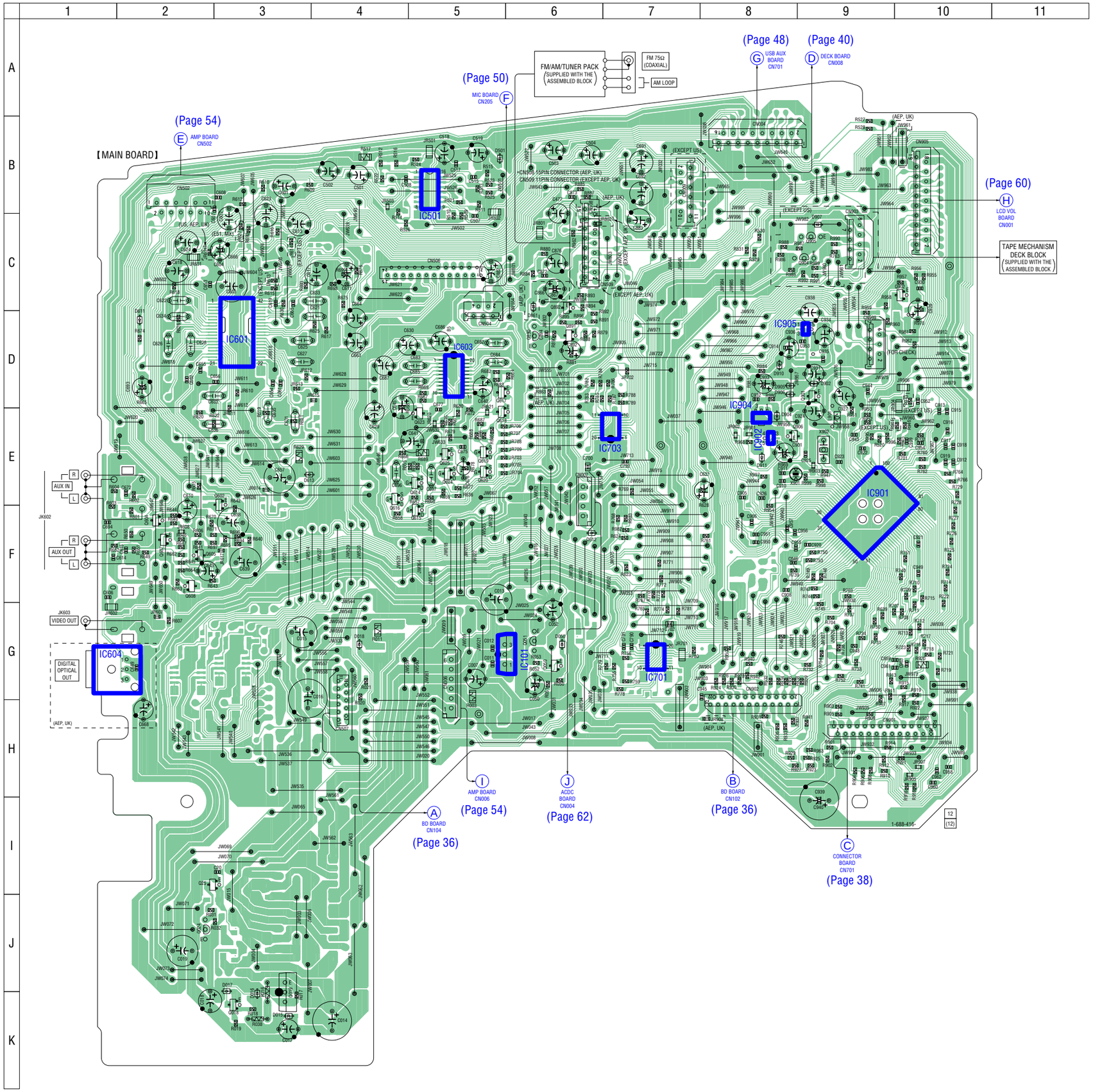
㊶ IC001 ㊻ (OSC)



8-12. PRINTED WIRING BOARD – MAIN Board –

• See page 35 for Circuit Boards Location.

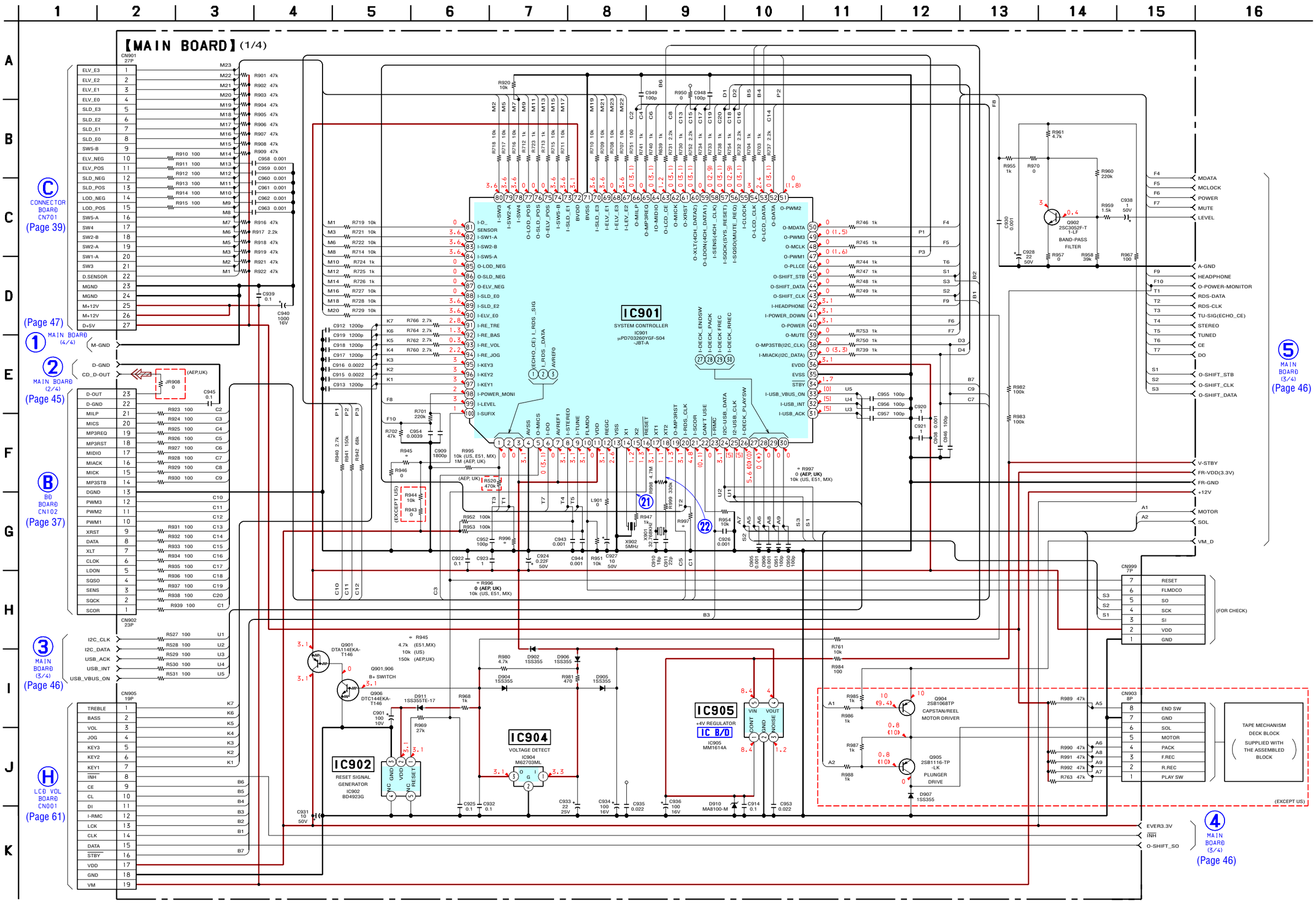
:Uses unleaded solder.



- **Semiconductor Location**

Ref. No.	Location
D015	K-3
D016	K-3
D017	J-3
D018	G-4
D050	G-6
D501	B-5
D611	D-2
D612	F-6
D613	E-3
D861	C-6
D902	D-9
D904	E-8
D905	D-8
D906	D-8
D907	C-9
D910	D-8
D911	E-8
IC101	G-5
IC501	B-5
IC601	D-3
IC603	D-5
IC604	G-2
IC701	G-7
IC703	E-7
IC901	F-9
IC902	E-8
IC904	E-8
IC905	D-9
Q25	I-2
Q018	K-3
Q019	K-3
Q024	J-2
Q050	G-6
Q051	G-6
Q602	E-3
Q604	F-2
Q605	F-2
Q607	F-2
Q608	F-2
Q614	E-5
Q615	F-5
Q616	E-4
Q617	D-5
Q618	E-5
Q619	E-5
Q620	E-5
Q623	E-5
Q624	E-5
Q625	E-5
Q890	D-6
Q891	D-6
Q892	C-6
Q901	D-9
Q902	C-10
Q904	C-9
Q905	C-9
Q906	E-8

8-13. SCHEMATIC DIAGRAM – MAIN Board (1/4) – • See page 42 for Waveforms. • See page 68 for IC Block Diagram.


【MAIN BOARD】(1/4)
IC901
SYSTEM CONTROLLER
IC901
μPD703260YGF-S04
-JBT-A
IC902
RESET SIGNAL GENERATOR
IC902
BD4923G
IC904
VOLTAGE DETECT
IC904
M62703ML
IC905
+4V REGULATOR
IC B/D
IC905
MM1614A
Q902
2SC3052F-T
1-LF
BAND-PASS
FILTER
Q904
2SB1068TP
CAPSTAN/REEL
MOTOR DRIVER
Q905
2SB1116-TP
-LK
PLUNGER
DRIVE
Q906
DTC144EKA-
T146
Q901
DTA114EKA-
T146
Q901,906
B+ SWITCH
D907
1SS355
D910
MA8100-M
TAPE MECHANISM
DECK BLOCK
SUPPLIED WITH
THE ASSEMBLED
BLOCK
(EXCEPT US)
(FOR CHECK)
CONNECTOR
BOARD
CN701
(Page 39)
MAIN BOARD
(4/4)
(Page 47)
MAIN BOARD
(2/4)
(Page 45)
BD BOARD
CN102
(Page 37)
MAIN BOARD
(3/4)
(Page 46)
LCD VOL
BOARD
CN001
(Page 61)
MAIN BOARD
(3/4)
(Page 46)
MAIN BOARD
(3/4)
(Page 46)
CN901
27P
CN902
23P
CN905
19P
CN903
8P
CN999
7P
ELV_E3
ELV_E2
ELV_E1
ELV_E0
SLD_E3
SLD_E2
SLD_E1
SLD_E0
SW5-B
ELV_NEG
ELV_POS
SLD_NEG
SLD_POS
LOD_NEG
LOD_POS
SW5-A
SW4
SW2-B
SW2-A
SW1-A
SW3
D.SENSOR
MGND
MGND
M+12V
M+12V
D+5V
M-GND
D-GND
CD_D-OUT
D-OUT
D-GND
MILP
MICS
MP3REQ
MP3RST
MIDIO
MIACK
MICK
MP3STB
DGND
PWM3
PWM2
PWM1
XRST
DATA
XLT
CLOK
LDON
SQSO
SENS
SQCK
SCOR
I2C_CLK
I2C_DATA
USB_ACK
USB_INT
USB_VBUS_ON
TREBLE
BASS
VOL
JOG
KEY3
KEY2
KEY1
INH
CE
CL
DI
I-RMC
LCK
CLK
DATA
STBY
VDD
GND
VM
RESET
FLMDCO
SO
SCK
SI
VDD
GND
END SW
GND
SOL
MOTOR
PACK
F.REC
R.REC
PLAY SW
MDATA
MCLOCK
POWER
MUTE
LEVEL
A-GND
HEADPHONE
O-POWER-MONITOR
RDS-DATA
RDS-CLK
TU-SIG(ECHO_CE)
STEREO
TUNED
CE
DO
O-SHIFT_STB
O-SHIFT_CLK
O-SHIFT_DATA
V-STBY
FR-VDD(3.3V)
FR-GND
+12V
MOTOR
SOL
VM_D
EVER3.3V
INH
O-SHIFT_SO
SENSOR
I-SW1-A
I-SW2-B
I-SW5-A
O-LOD_NEG
O-SLD_NEG
O-ELV_NEG
I-SLD_E0
I-SLD_E2
I-ELV_E0
I-RE_TRE
I-RE_BAS
I-RE_VOL
I-RE_JOG
I-KEY3
I-KEY2
I-KEY1
I-POWER_MONI
I-LEVEL
I-SUFIX
O-PWM2
O-MDATA
O-PWM3
O-MCLK
O-PWM1
O-PLLCE
O-SHIFT_STB
O-SHIFT_DATA
O-SHIFT_CLK
I-HEADPHONE
I-POWER_DOWN
O-POWER
O-MUTE
O-MP3STB(I2C_CLK)
I-MIACK(I2C_DATA)
EVDD
EVSS
STBY
I-USB_VBUS_ON
I-USB_INT
I-USB_ACK
I-DECK_ENDSW
I-DECK_PACK
I-DECK_FREC
I-DECK_RREC
I-DECK_PLAYSW
I-SW3
I-SW2-A
I-SW4
O-LOD_POS
O-SLD_POS
O-ELV_POS
I-SW5-B
I-SLD_E1
BVDD
BVSS
I-SLD_E3
I-ELV_E1
I-ELV_E3
I-LEV_E2
O-MILP
O-MP3REQ
IO-MIDIO
O-LCD_CE
O-MICK
O-XRST
O-XLT(4CH_DATA2)
O-LDON(4CH_DATA1)
I-SENS(4CH_CLK)
I-SOCK(SYS_RESET)
I-SQSO(MUTE_REQ)
I-CLOCK
O-LCD_CLK
O-LCD_DATA
O-DATA
AVSS
O-MICS
I-DO
AVREF1
I-STEREO
I-TUNE
FLMD0
VDD
REGC
VSS
X1
X2
RESET
XT1
XT2
O-MP3RST
I-RDS_CLK
I-SCOR
CAN'T USE
I-RMC
I2C-USB_DATA
I2-USB_CLK
I-DECK_PLAYSW
(ECHO_CE) I_RDS_SIG
I_RDS_DATA
AVREF0
(AEP,UK)
JR908
0
(AEP, UK)
R520
470k
(EXCEPT US)
R944
10k
R943
0
* R997
0 (AEP, UK)
10k (US, E51, MX)
* R996
0 (AEP, UK)
10k (US, E51, MX)
* R945
4.7k (E51,MX)
10k (US)
150k (AEP,UK)
R995
10k (US, E51, MX)
1M (AEP, UK)
X901
32.768kHz
X902
5MHz
B+ SWITCH
R961
4.7k
R955
1k
R970
0
R960
220k
R959
1.5k
C938
1
50V
C928
22
50V
R957
0
R958
39k
R967
100
C930
0.001
R982
100k
R983
100k
R984
100
R761
10k
R985
1k
R986
1k
R987
1k
R988
1k
R989
47k
R990
47k
R991
47k
R992
47k
R763
47k
C931
10
50V
C920
1
C921
1
C908
0.001
C946
100p
C955
100p
C956
100p
C957
100p
C949
100p
C948
100p
R950
0
R920
10k
C939
0.1
C940
1000
16V
C945
0.1
C909
1800p
C954
0.0039
R701
220k
R702
47k
R946
0
R940
2.7k
R941
150k
R942
68k
C901
100
10V
C922
0.1
C923
1
C924
0.22F
50V
C925
0.1
C932
0.1
C933
22
25V
C934
100
16V
C935
0.022
C936
100
16V
C914
0.1
C953
0.022
C926
0.001
C927
10
50V
C943
0.001
C944
0.001
C905
0.001
C906
0.001
C907
100p
C950
100p
C910
100
C911
22p
R951
10k
R952
100k
R953
100k
R954
10k
R947
R998
4.7M
R999
330k
R996
*
R997
*
R980
4.7k
R981
470
R968
1k
R969
27k
R766
2.7k
R764
2.7k
R762
2.7k
R760
2.7k
R718
10k
R717
10k
R716
10k
R712
1k
R723
1k
R713
1k
R715
10k
R711
10k
R710
10k
R709
10k
R708
10k
R707
10k
R751
100
R741
1k
R740
1k
R639
1k
R731
2.2k
R730
1k
R752
2.2k
R734
1k
R733
1k
R738
1k
R754
2.2k
R732
2.2k
R704
1k
R703
1k
R737
2.2k
R719
10k
R721
10k
R722
10k
R714
10k
R724
1k
R725
1k
R726
1k
R727
10k
R728
10k
R729
10k
R746
1k
R745
1k
R744
1k
R747
1k
R748
1k
R749
1k
R753
1k
R750
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R739
1k
R923
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R924
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R925
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R926
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R927
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R928
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R929
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R930
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R931
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R932
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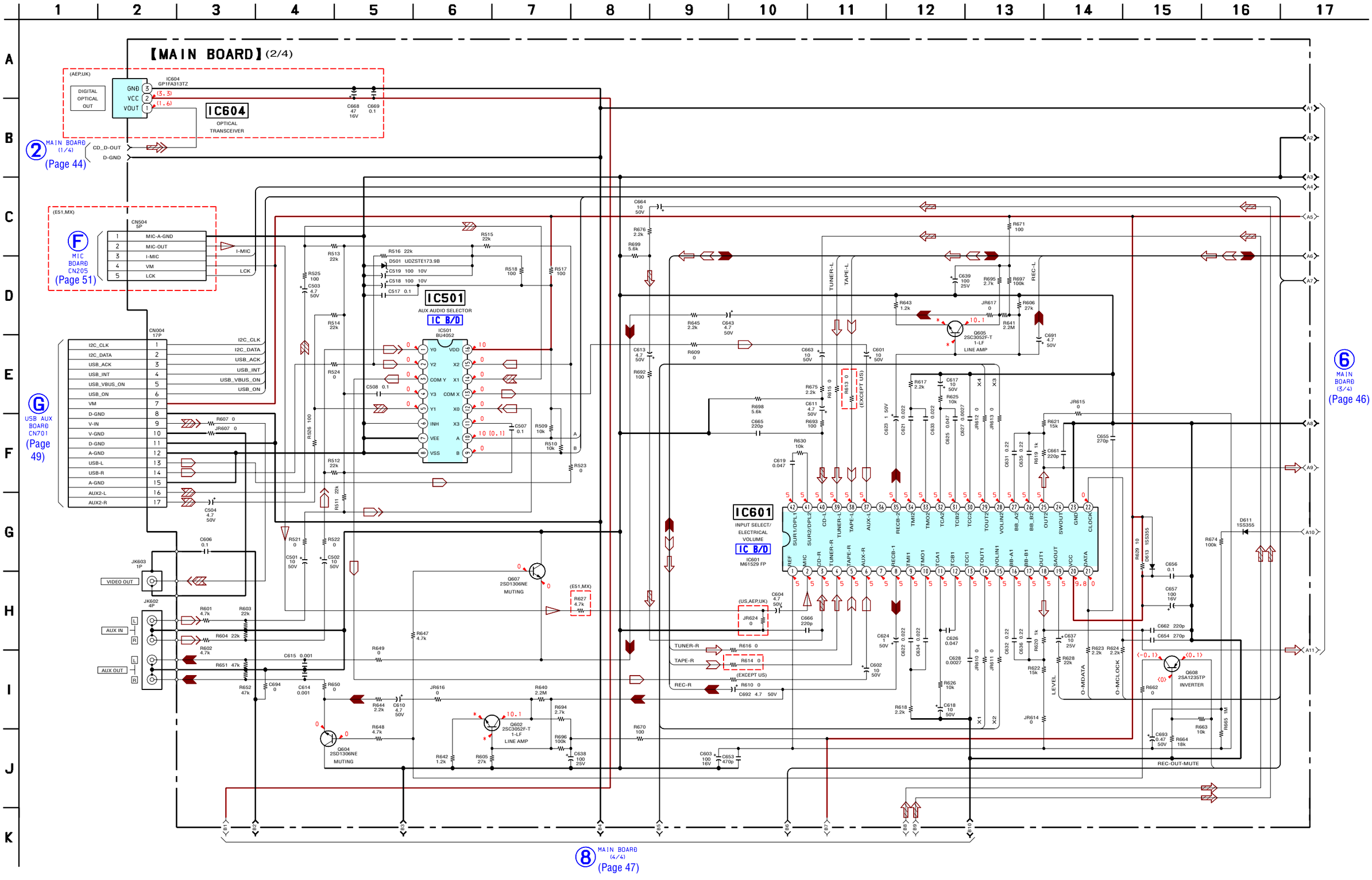
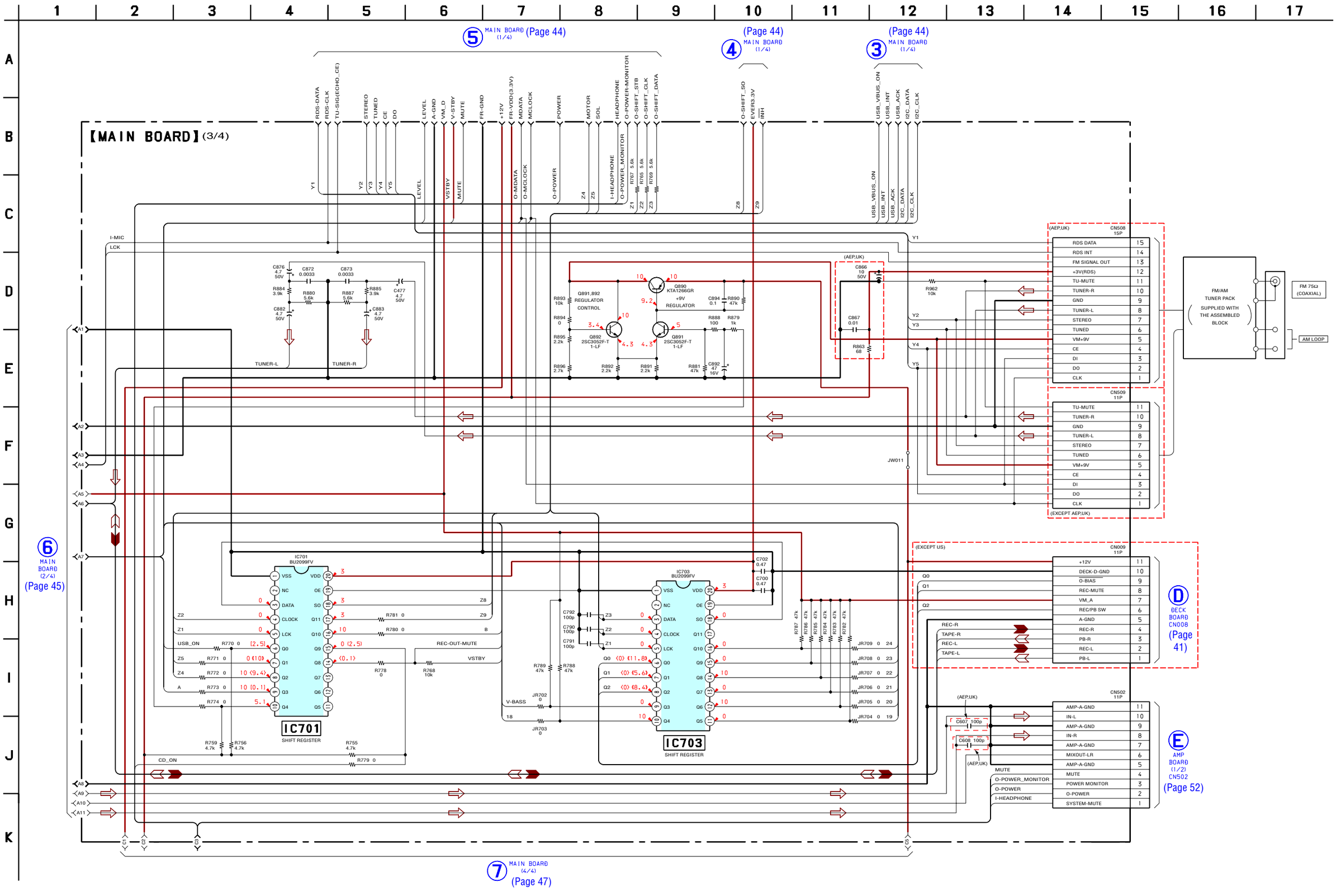
R933
100
R934
100
R935
100
R936
100
R937
100
R938
100
R939
100
R910
100
R911
100
R912
100
R913
100
R914
100
R915
100
R901
47k
R902
47k
R903
47k
R904
47k
R905
47k
R906
47k
R907
47k
R908
47k
R909
47k
R916
47k
R917
2.2k
R918
47k
R919
47k
R921
47k
R922
47k
C958
0.001
C959
0.001
C960
0.001
C961
0.001
C962
0.001
C963
0.001
R527
100
R528
100
R529
100
R530
100
R531
100
C912
1200p
C919
1200p
C918
1200p
C917
1200p
C916
0.0022
C915
0.0022
C913
1200p
C10
C11
C12
C3
C2
C3
C4
C5
C6
C7
C8
C9
C1
B1
B2
B3
B4
B5
B6
B7
F1
F2
F3
F4
F5
F6
F7
F8
F9
F10
T1
T2
T3
T4
T5
T6
T7
S1
S2
S3
A1
A2
A5
A6
A7
A8
A9
D1
D2
D3
D4
P1
P2
P3
K1
K2
K3
K4
K5
K6
K7
M1
M2
M3
M5
M6
M7
M8
M9
M10
M11
M12
M13
M14
M15
M16
M17
M18
M19
M20
M21
M22
M23
U1
U2
U3
U4
U5
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
C13
C14
C15
C16
C17
C18
C19
C20
C21
C22
C23
C24
C25
C26
C27
C28
C29
C30
C31
C32
C33
C34
C35
C36
C37
C38
C39
C40

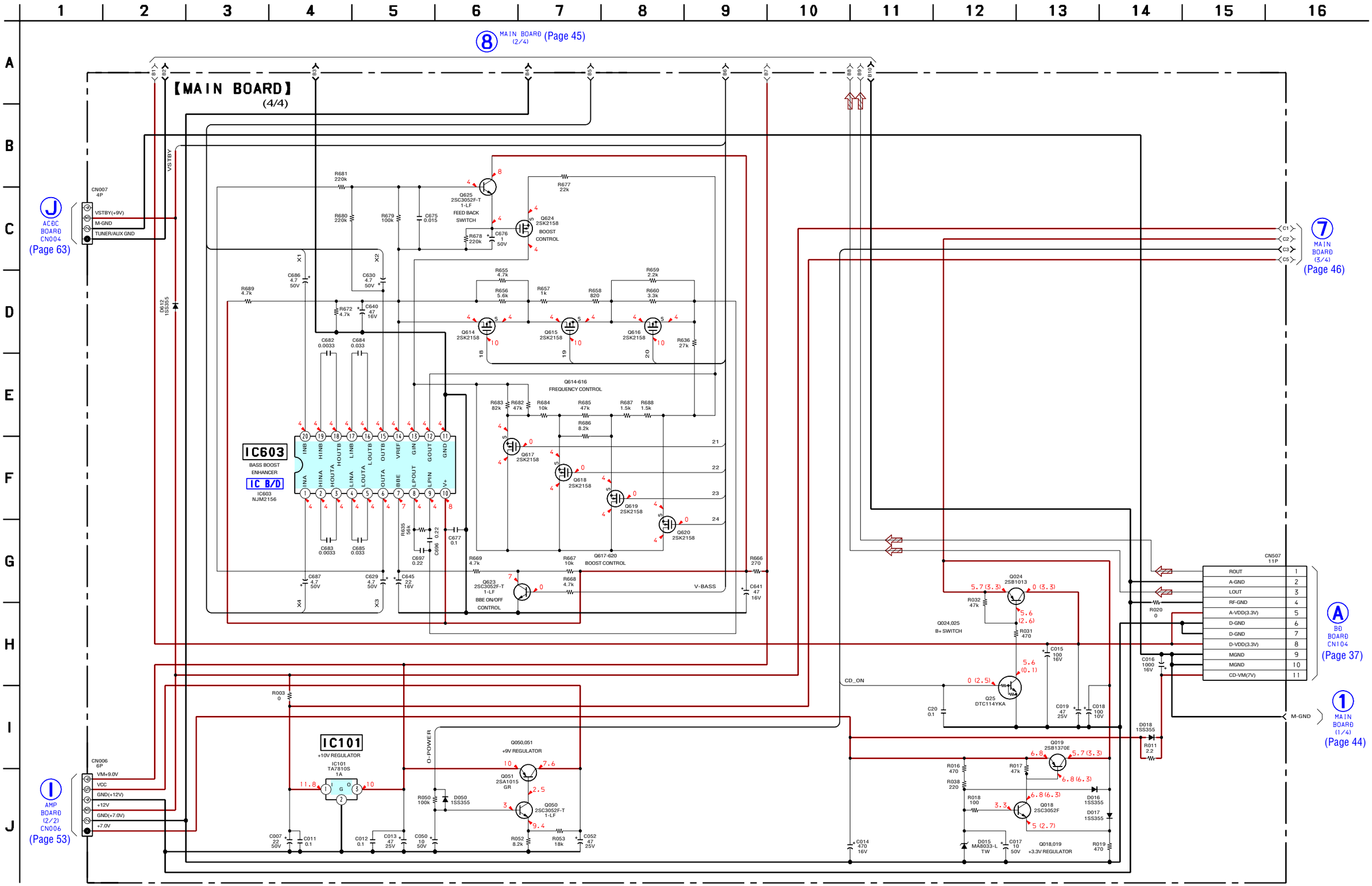
8-14. SCHEMATIC DIAGRAM – MAIN Board (2/4) –



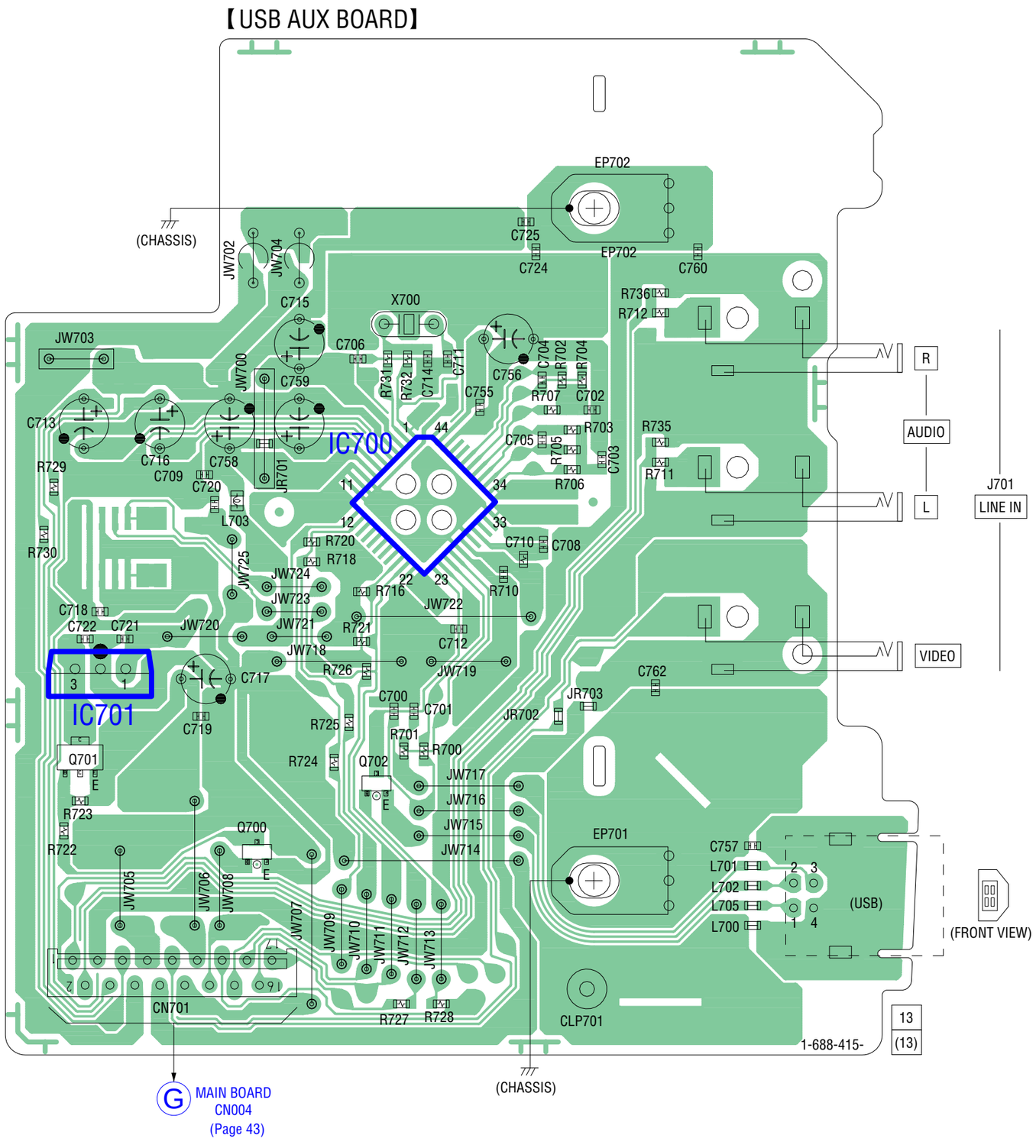
8-15. SCHEMATIC DIAGRAM – MAIN Board (3/4) – • See page 68 for IC Block Diagrams.



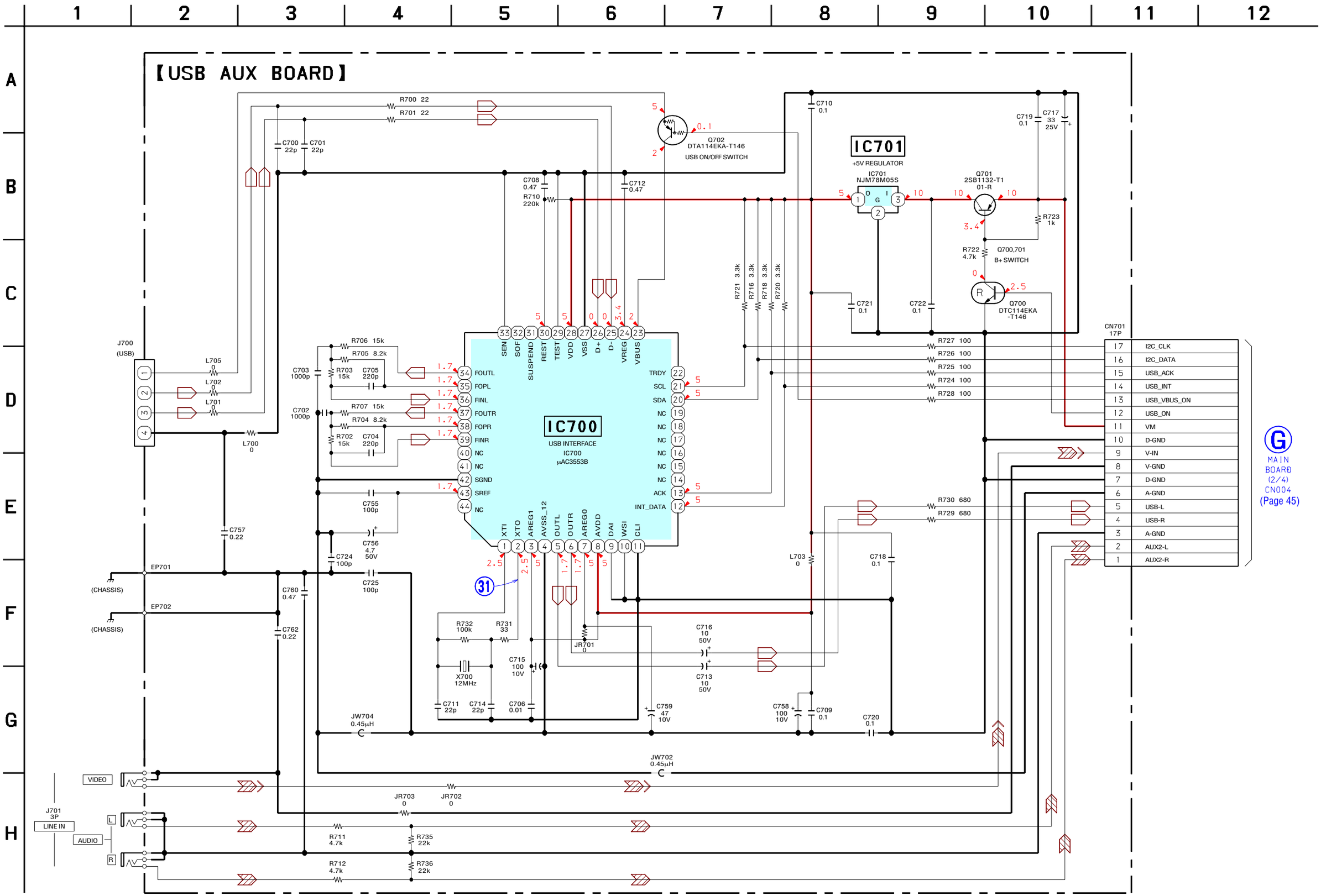
8-16. SCHEMATIC DIAGRAM – MAIN Board (4/4) – • See page 68 for IC Block Diagram.



8-17. PRINTED WIRING BOARD – USB AUX Board – • See page 35 for Circuit Boards Location. :Uses unleaded solder.



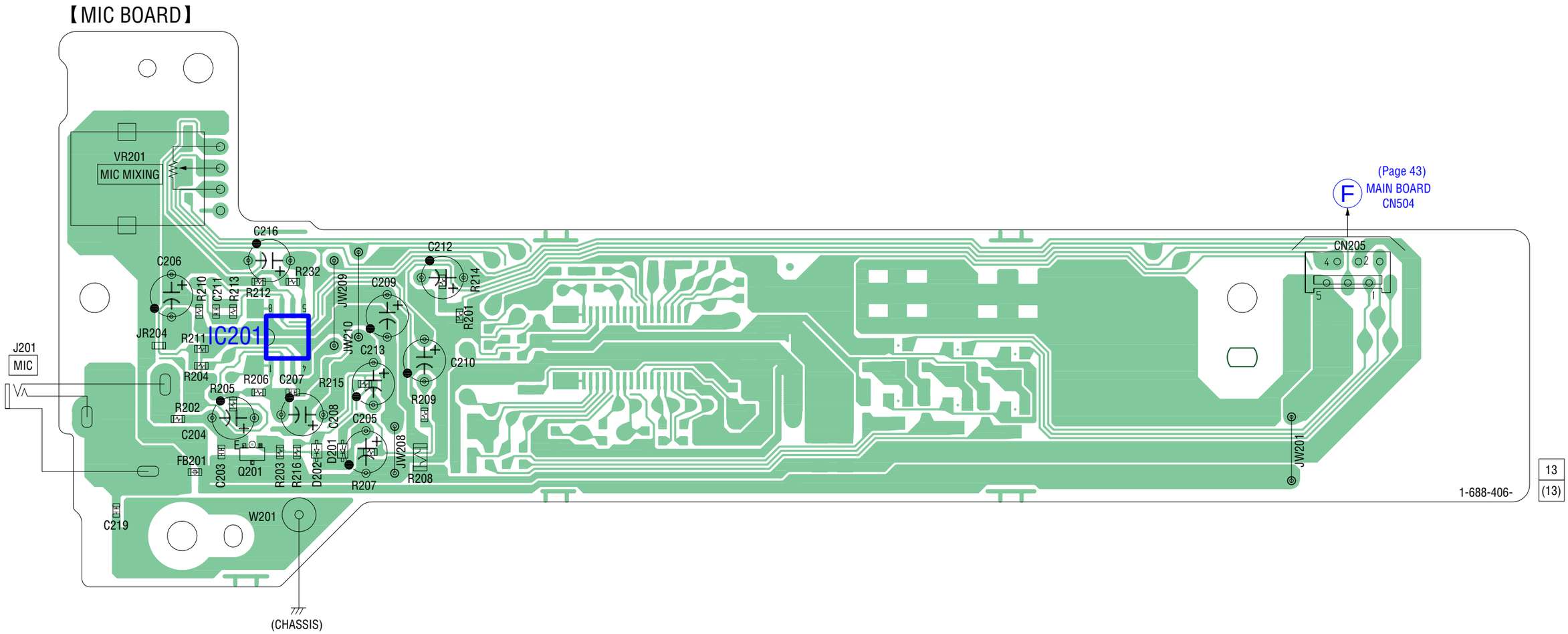
8-18. SCHEMATIC DIAGRAM – USB AUX Board – • See page 42 for Waveform.



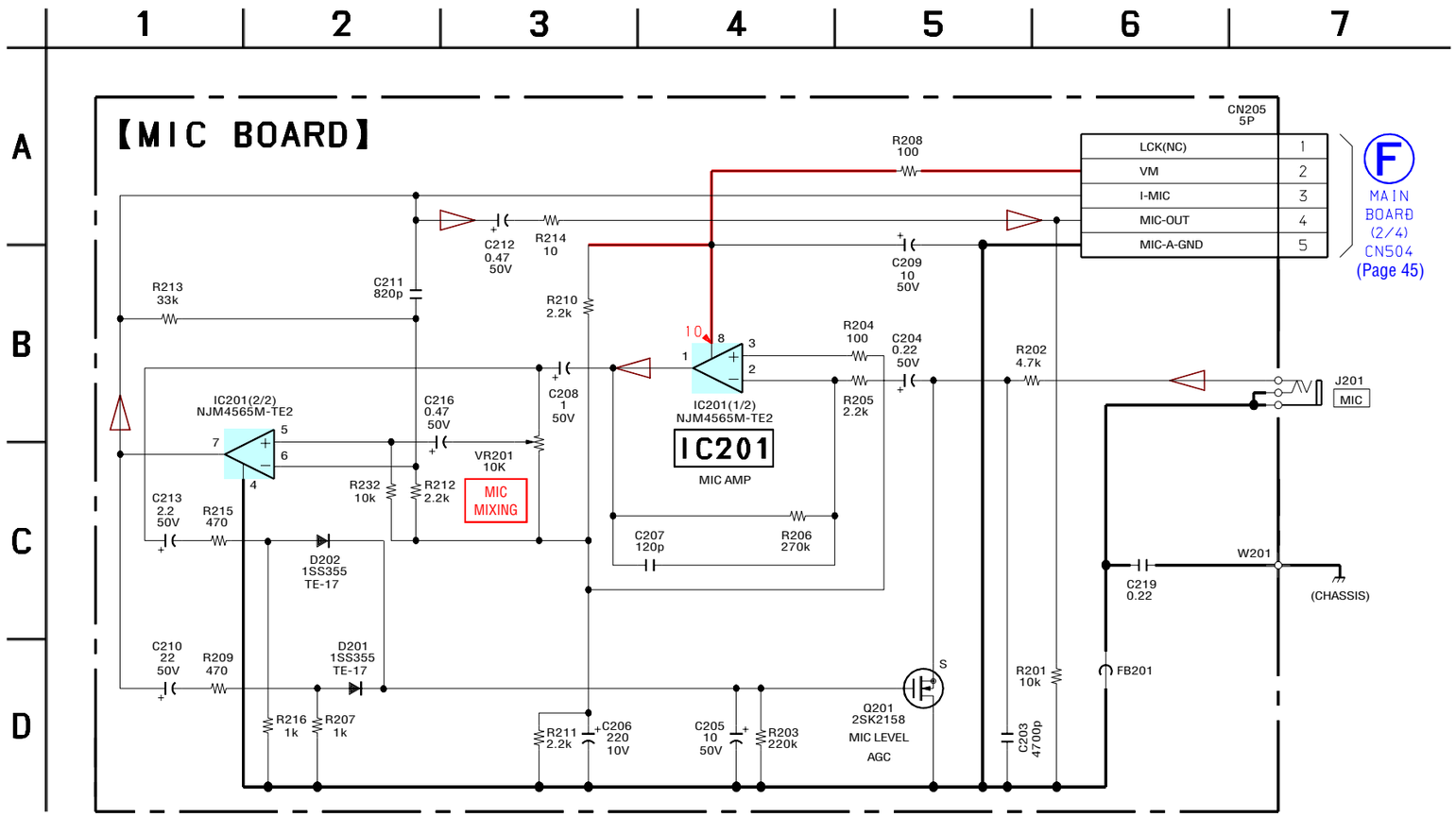
8-19. PRINTED WIRING BOARD – MIC Board (Chilean, Peruvian and Mexican models) –

• See page 35 for Circuit Boards Location.

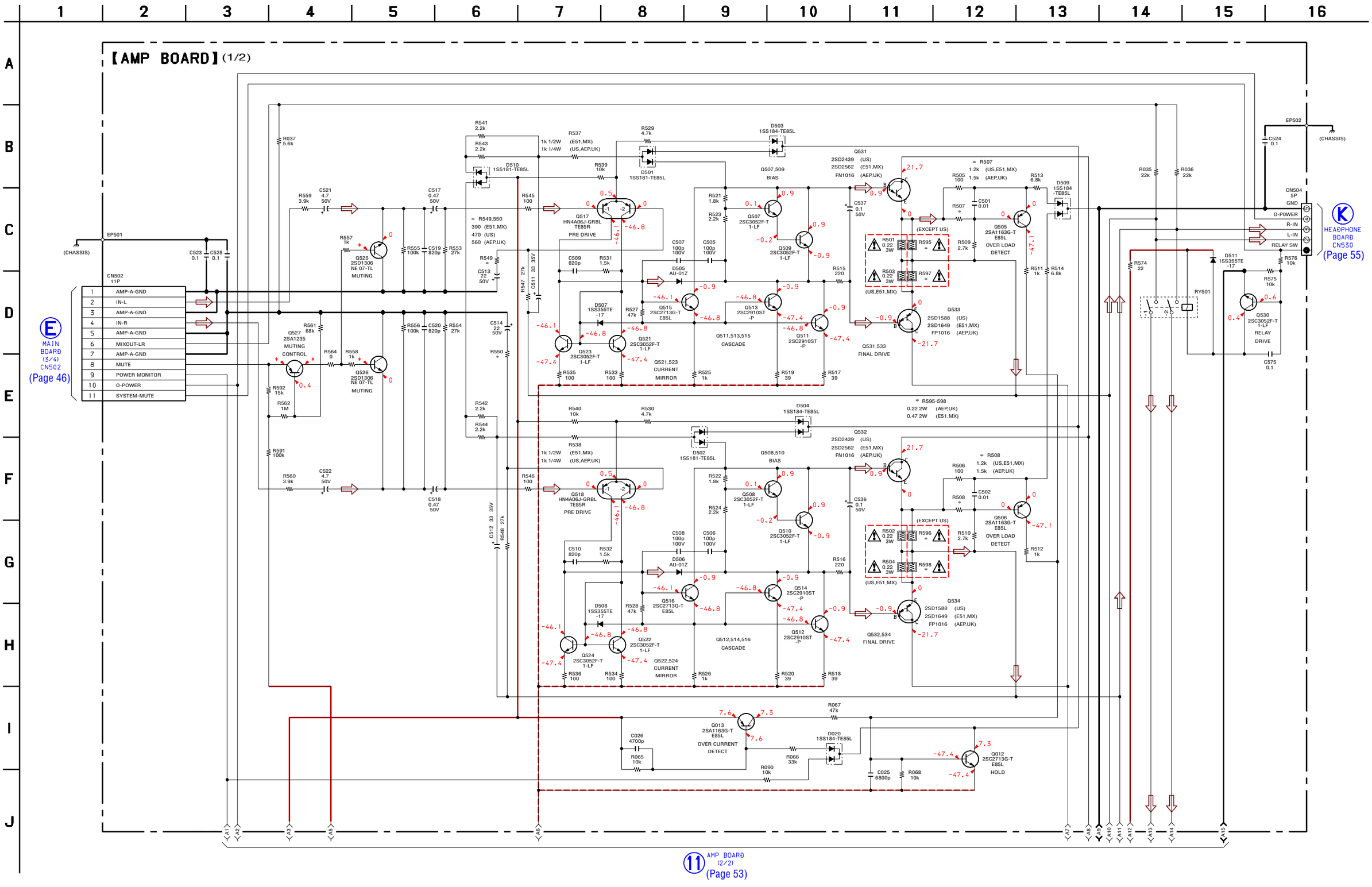
:Uses unleaded solder.



8-20. SCHEMATIC DIAGRAM – MIC Board (Chilean, Peruvian and Mexican models) –

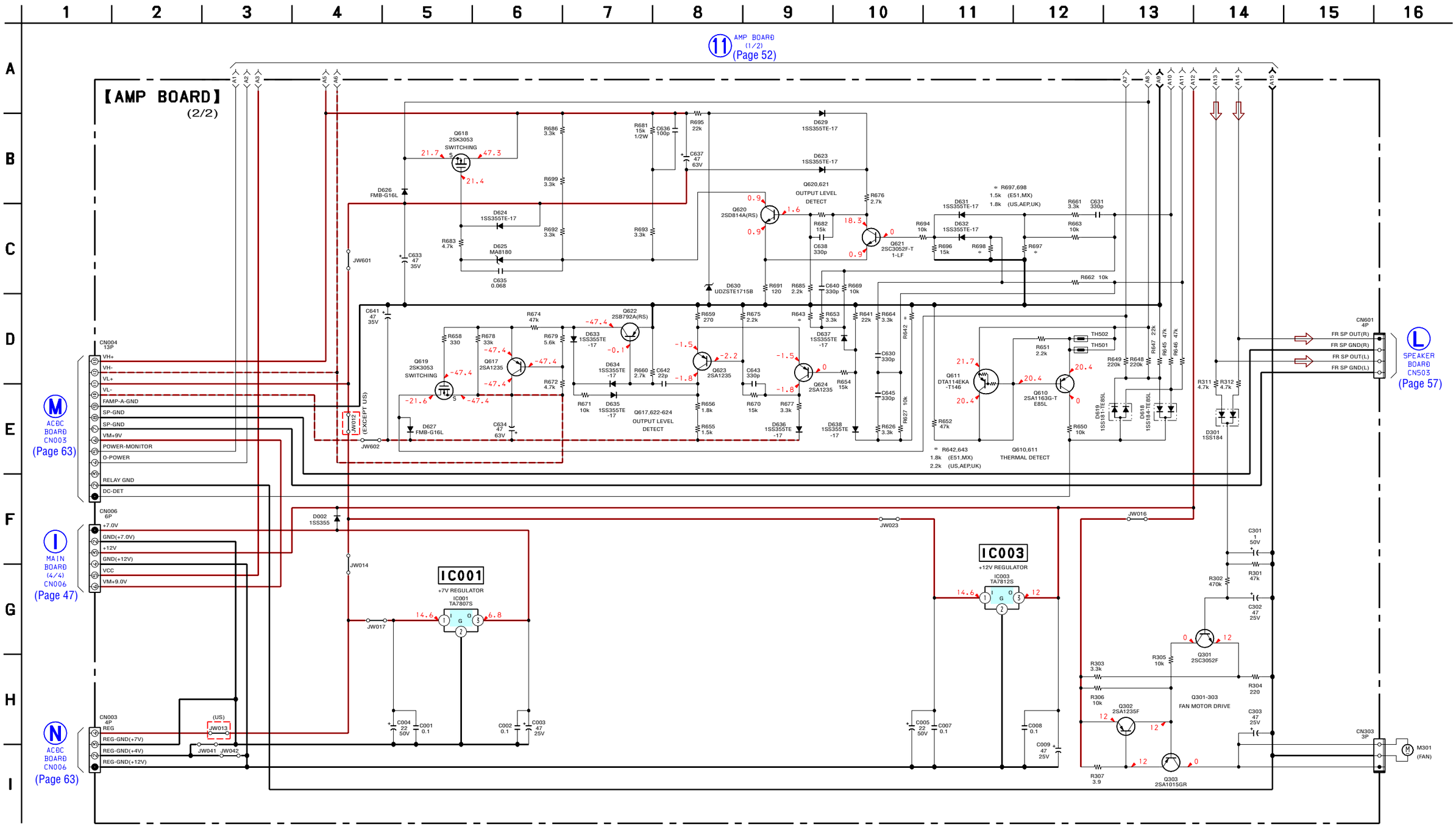


8-21. SCHEMATIC DIAGRAM – AMP Board (1/2) –



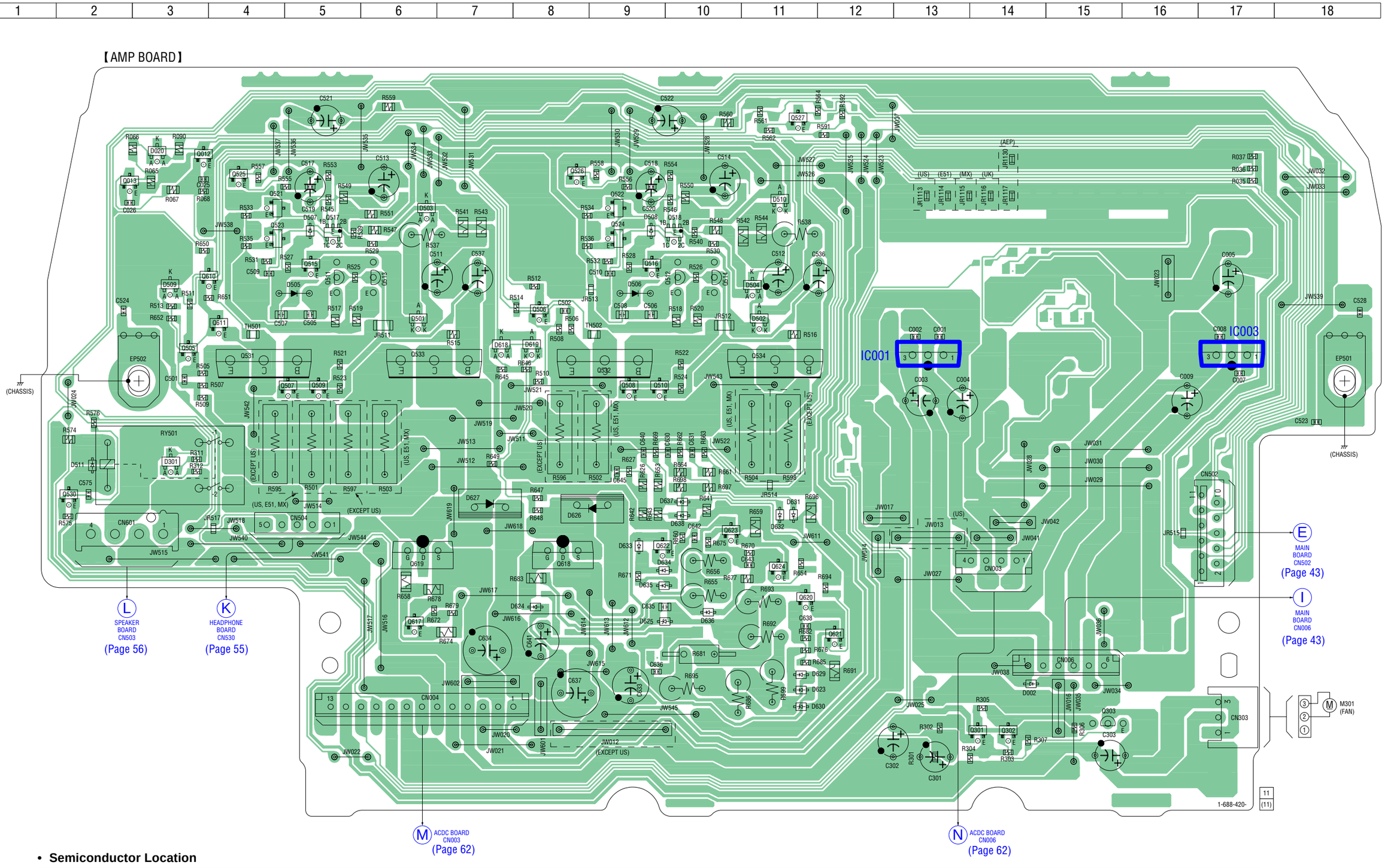
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

8-22. SCHEMATIC DIAGRAM – AMP Board (2/2) –



8-23. PRINTED WIRING BOARD – AMP Board – • See page 35 for Circuit Boards Location. :Uses unleaded solder.

【AMP BOARD】

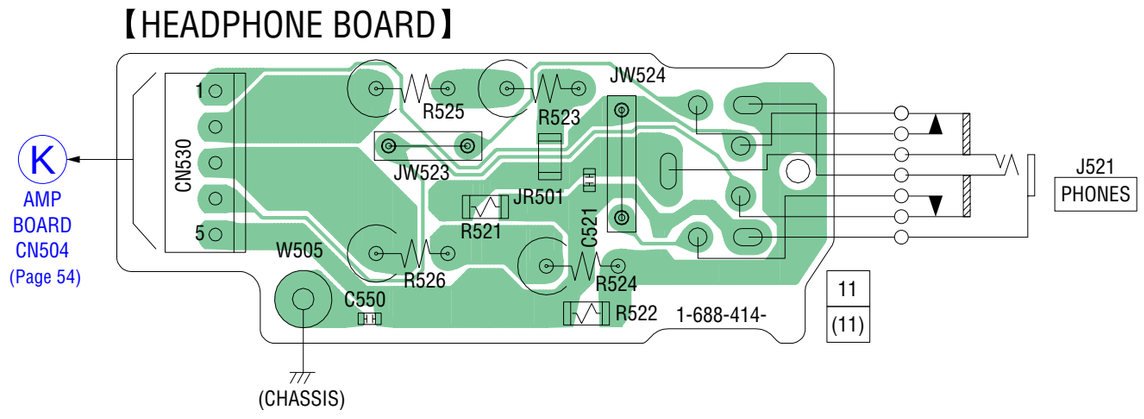


• **Semiconductor Location**

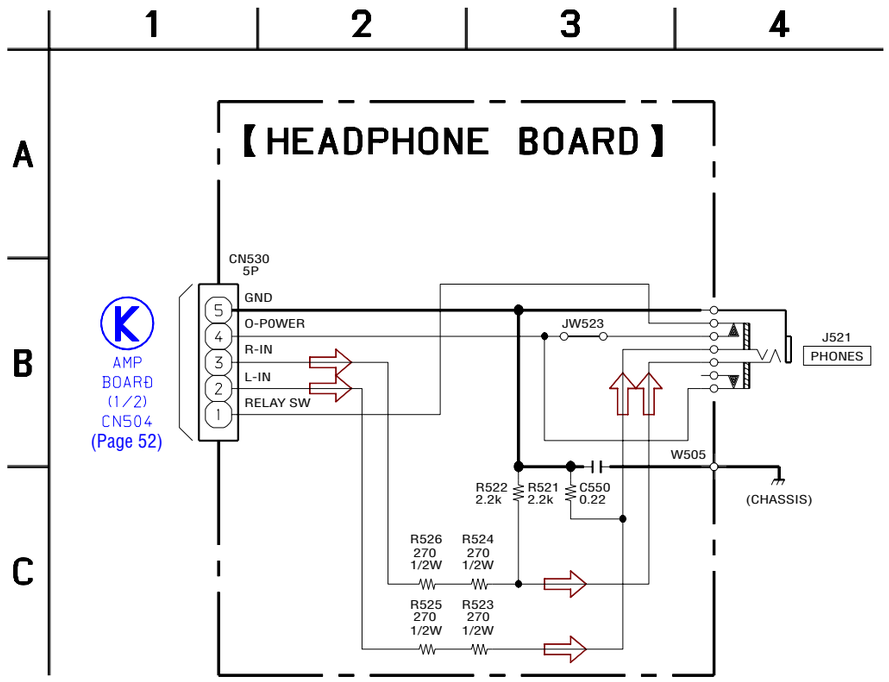
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D002	I-14	D505	D-5	D618	E-7	D629	I-11	D636	H-10	Q012	B-3	Q507	E-5	Q514	D-10	Q523	C-4	Q532	E-9	Q619	H-6
D020	B-3	D506	D-9	D619	E-8	D630	J-11	D637	G-10	Q013	C-2	Q508	E-9	Q515	D-5	Q524	C-9	Q533	E-6	Q620	H-11
D301	F-3	D507	C-5	D623	I-11	D631	G-11	D638	G-10	Q301	J-14	Q509	E-5	Q516	D-9	Q525	C-4	Q534	E-11	Q621	I-12
D501	D-6	D508	C-9	D624	H-8	D632	G-11			Q302	J-14	Q510	E-9	Q517	C-5	Q526	C-8	Q610	D-4	Q622	G-9
D502	D-11	D509	D-3	D625	H-9	D633	G-9	IC001	E-13	Q303	J-15	Q511	D-5	Q518	C-10	Q527	B-11	Q611	E-4	Q623	G-10
D503	C-6	D510	C-11	D626	G-9	D634	H-9	IC003	E-17	Q505	E-3	Q512	D-10	Q521	C-4	Q530	G-2	Q617	H-6	Q624	H-11
D504	D-11	D511	F-2	D627	G-7	D635	H-9			Q506	D-8	Q513	D-6	Q522	C-9	Q531	E-4	Q618	H-8		

8-24. PRINTED WIRING BOARD – HEADPHONE Board – • See page 35 for Circuit Boards Location.

:Uses unleaded solder.



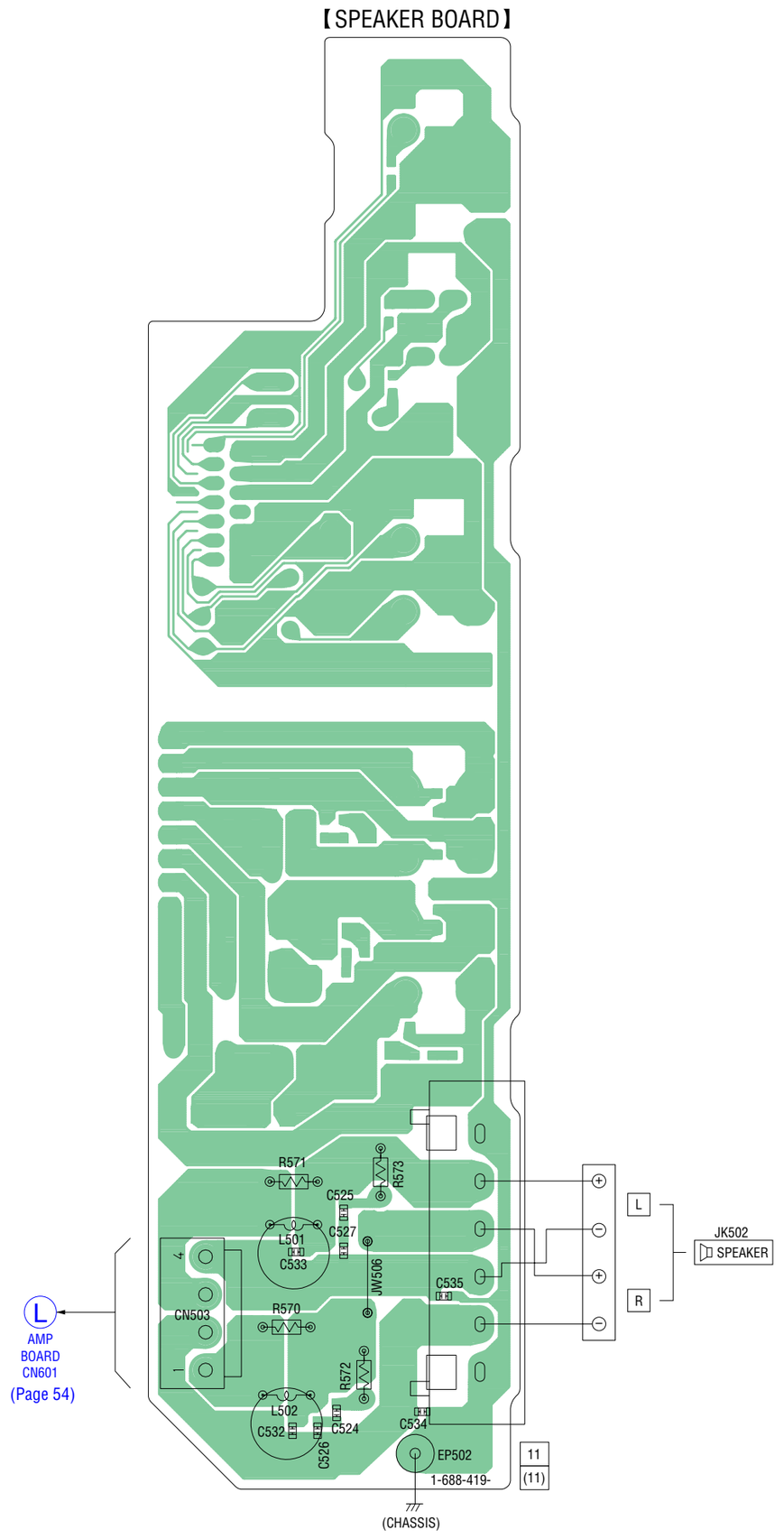
8-25. SCHEMATIC DIAGRAM – HEADPHONE Board –



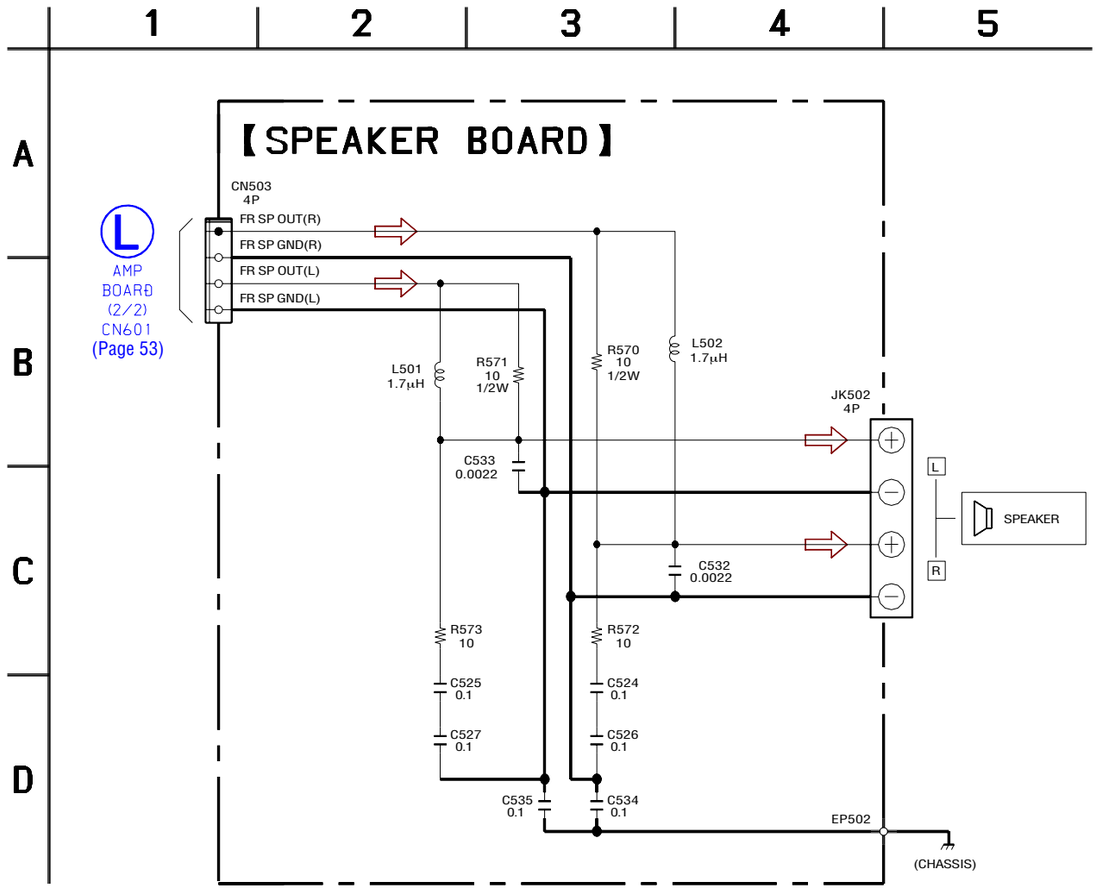
8-26. PRINTED WIRING BOARD – SPEAKER Board –

• See page 35 for Circuit Boards Location.

: Uses unleaded solder.



8-27. SCHEMATIC DIAGRAM – SPEAKER Board –



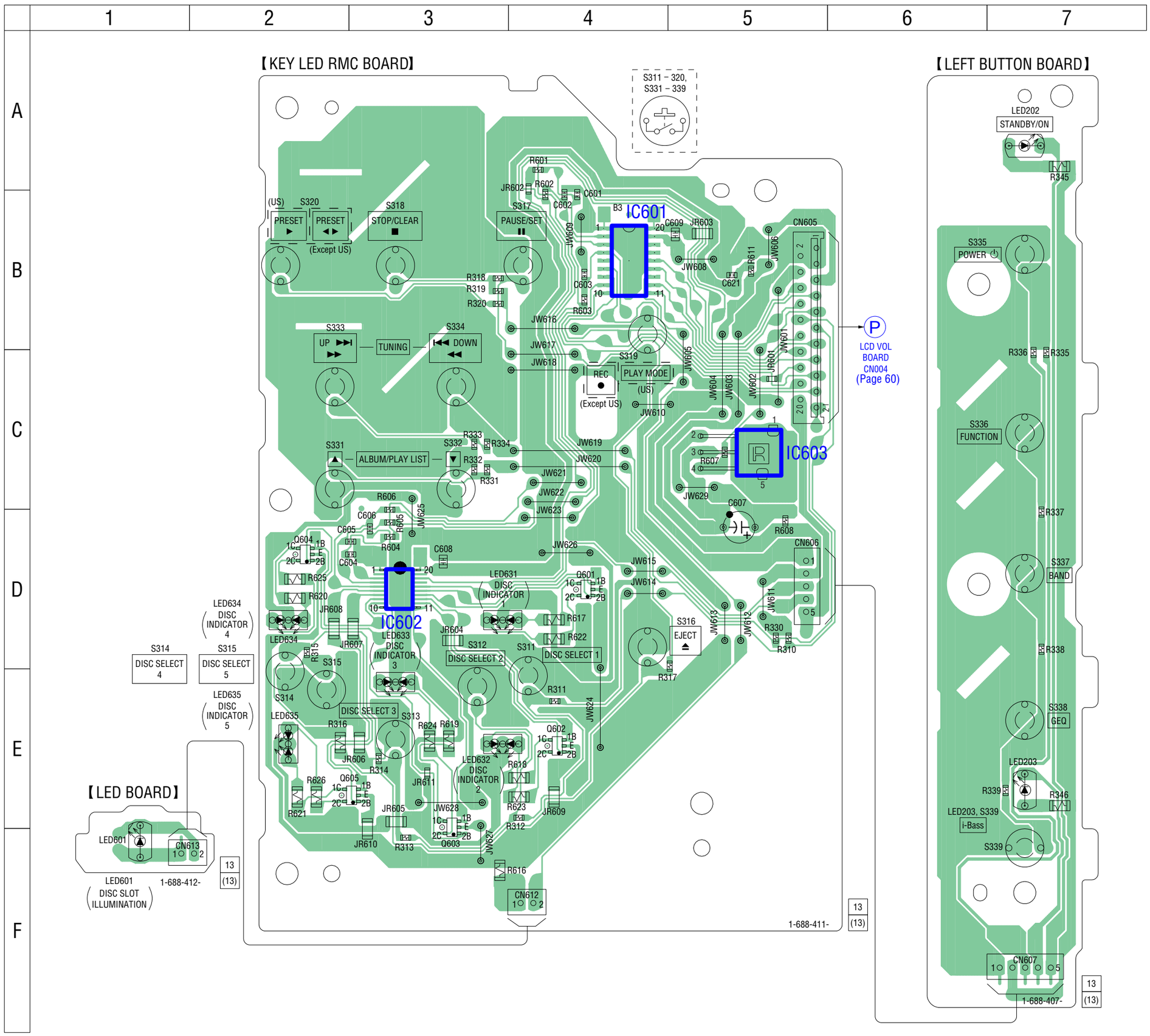
8-28. PRINTED WIRING BOARDS – KEY Section –

• See page 35 for Circuit Boards Location.

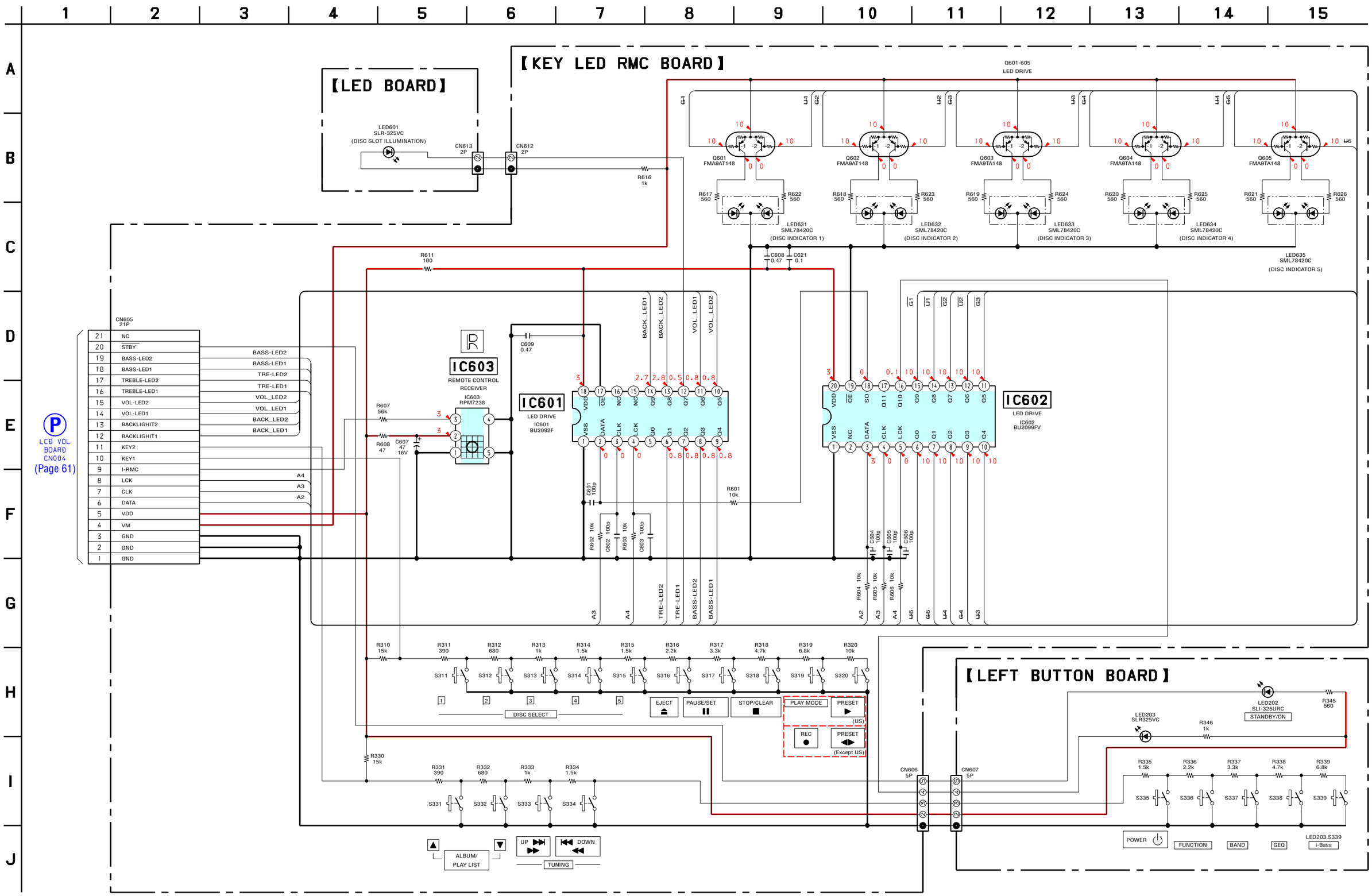
:Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location
IC601	B-4
IC602	D-3
IC603	C-5
LED202	A-7
LED203	E-7
LED601	F-1
LED631	D-3
LED632	E-3
LED633	E-3
LED634	D-2
LED635	E-2
Q601	D-4
Q602	E-4
Q603	E-3
Q604	D-2
Q605	E-3



8-29. SCHEMATIC DIAGRAM – KEY Section – • See page 42 for Waveform.



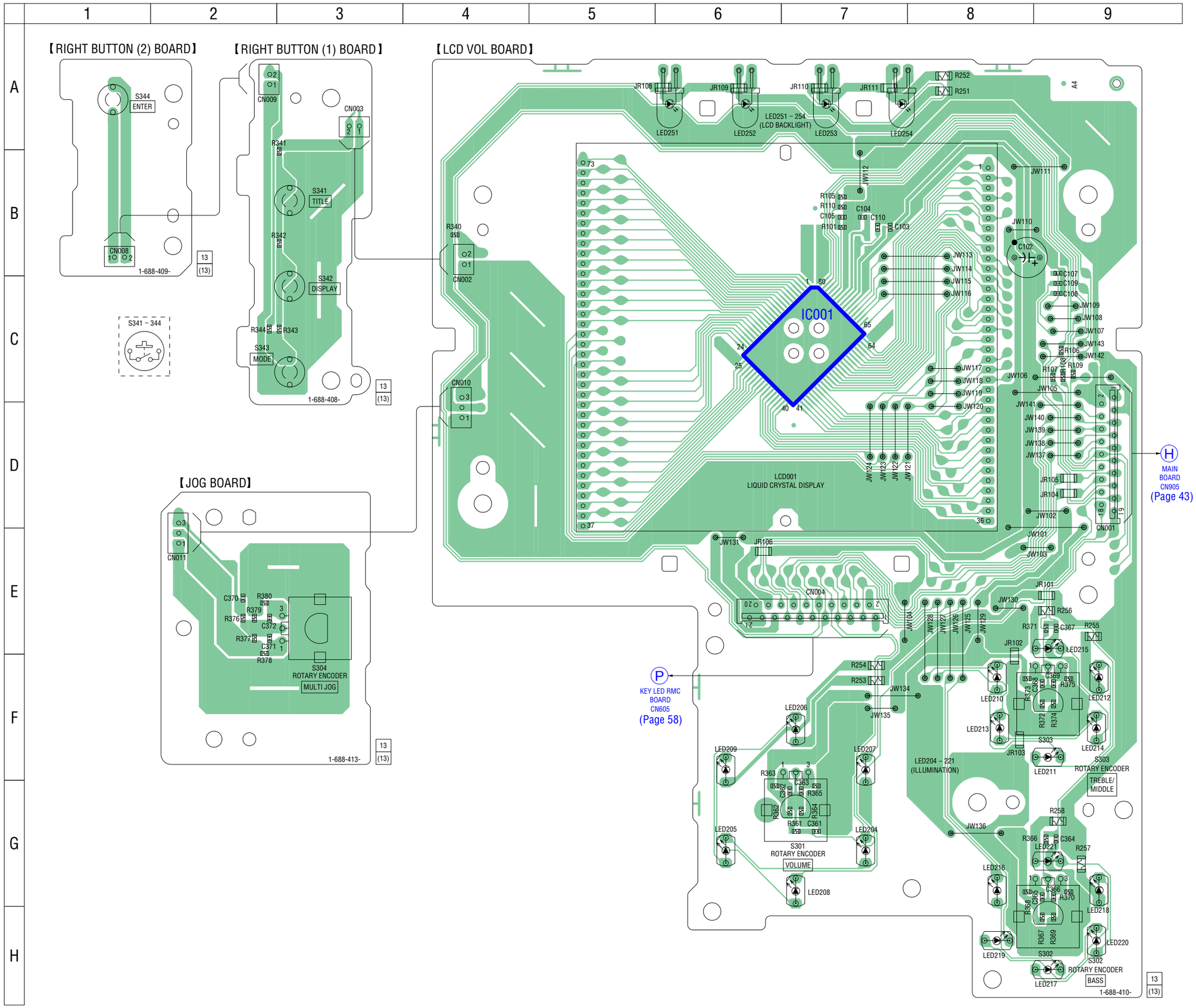
8-30. PRINTED WIRING BOARDS – LCD Section –

• See page 35 for Circuit Boards Location.

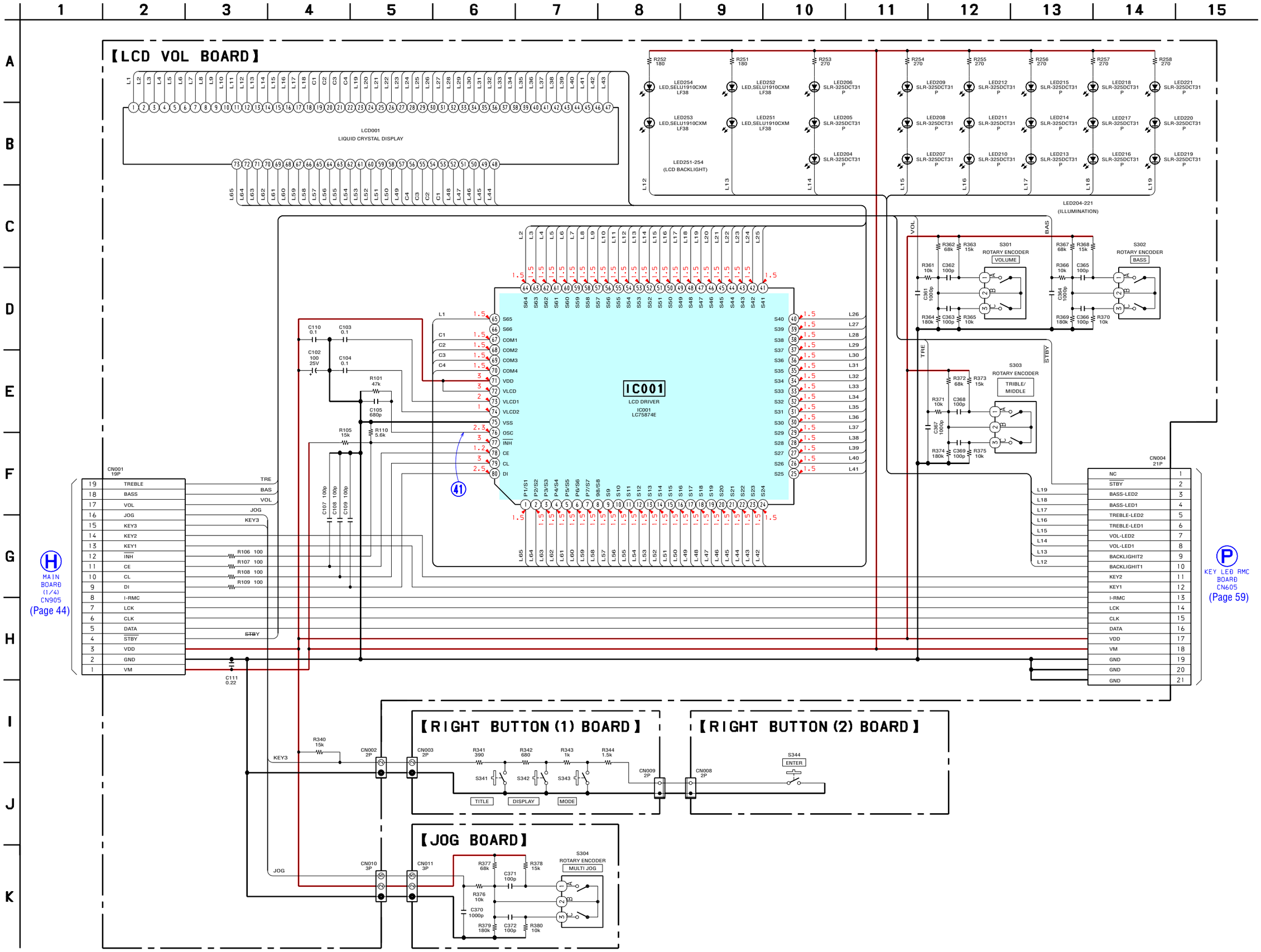
:Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location
IC001	C-7
LED204	G-7
LED205	G-6
LED206	F-7
LED207	F-7
LED208	G-7
LED209	F-6
LED210	F-8
LED211	F-9
LED212	F-9
LED213	F-8
LED214	F-9
LED215	E-9
LED216	G-8
LED217	H-9
LED218	G-9
LED219	H-8
LED220	H-9
LED221	G-9
LED251	A-6
LED252	A-6
LED253	A-7
LED254	A-7



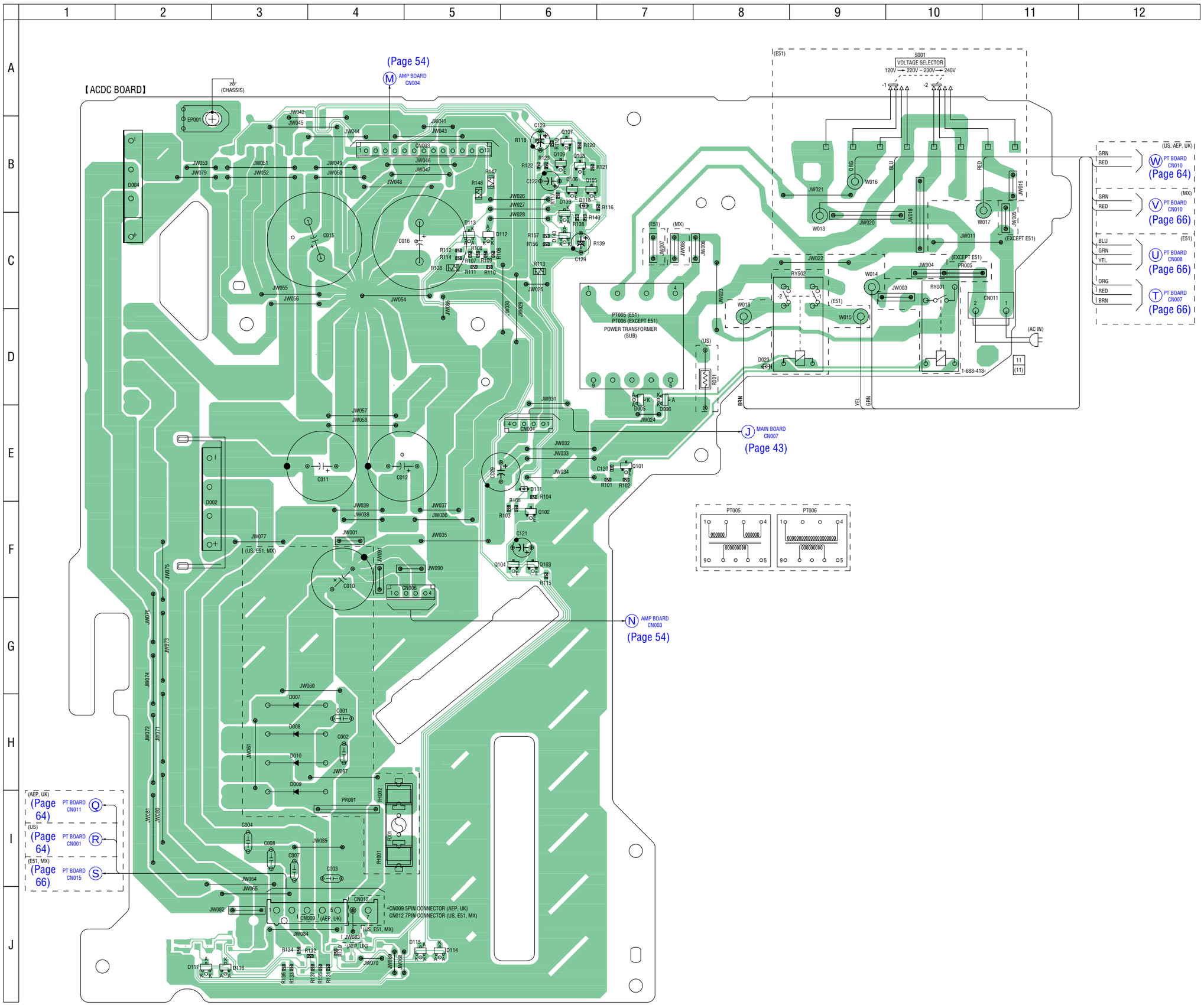
8-31. SCHEMATIC DIAGRAM – LCD Section –



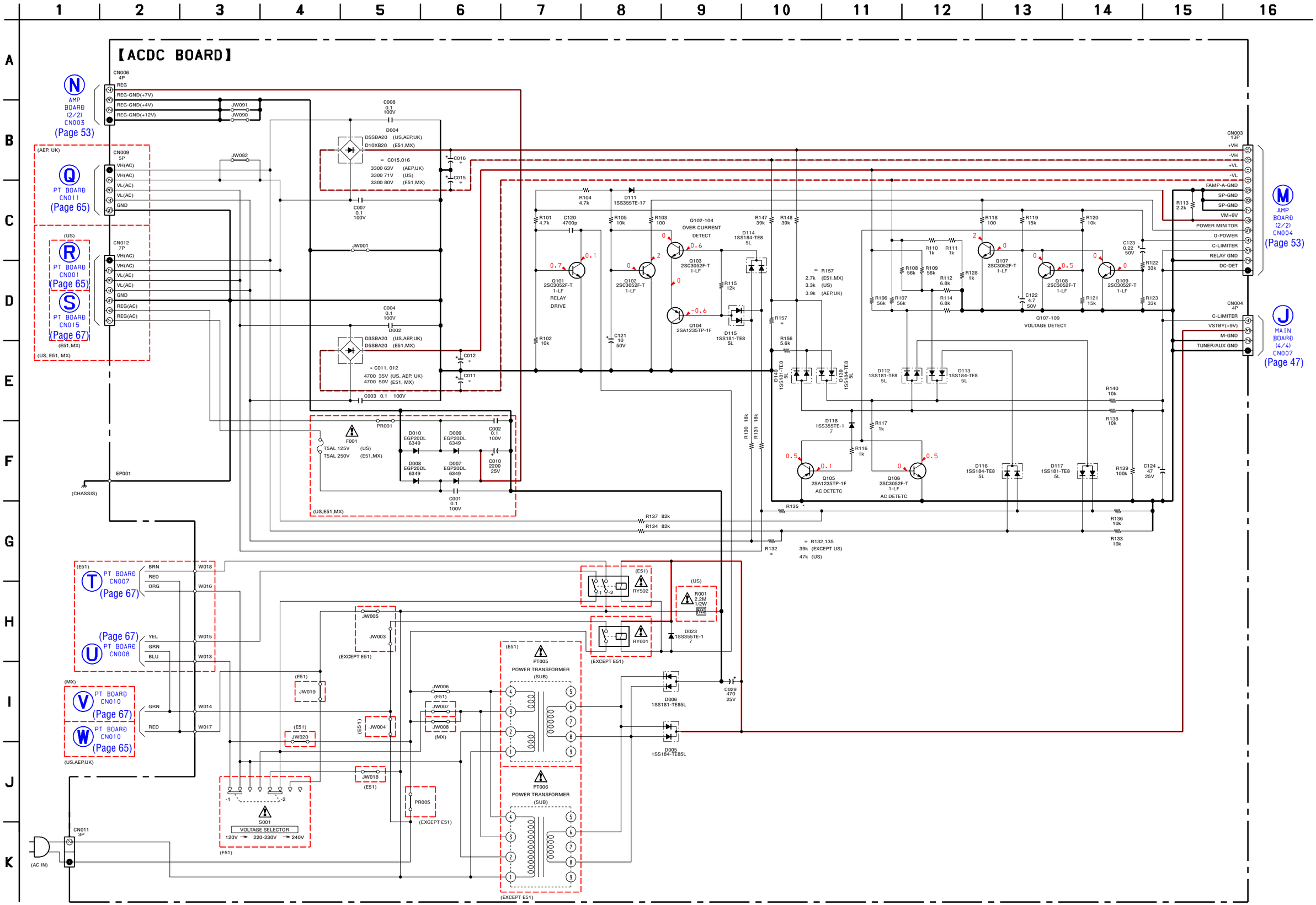
8-32. PRINTED WIRING BOARD – ACDC Board – • See page 35 for Circuit Boards Location. :Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location
D002	E-3
D004	B-2
D005	D-7
D006	D-7
D007	H-3
D008	H-3
D009	I-3
D010	H-3
D023	D-8
D111	E-6
D112	C-5
D113	C-5
D114	J-5
D115	J-5
D116	J-3
D117	J-2
D118	B-6
D139	C-6
D140	C-6
Q101	E-7
Q102	F-6
Q103	F-6
Q104	F-6
Q105	B-6
Q106	B-6
Q107	B-6
Q108	B-6
Q109	B-6



8-33. SCHEMATIC DIAGRAM – ACDC Board –

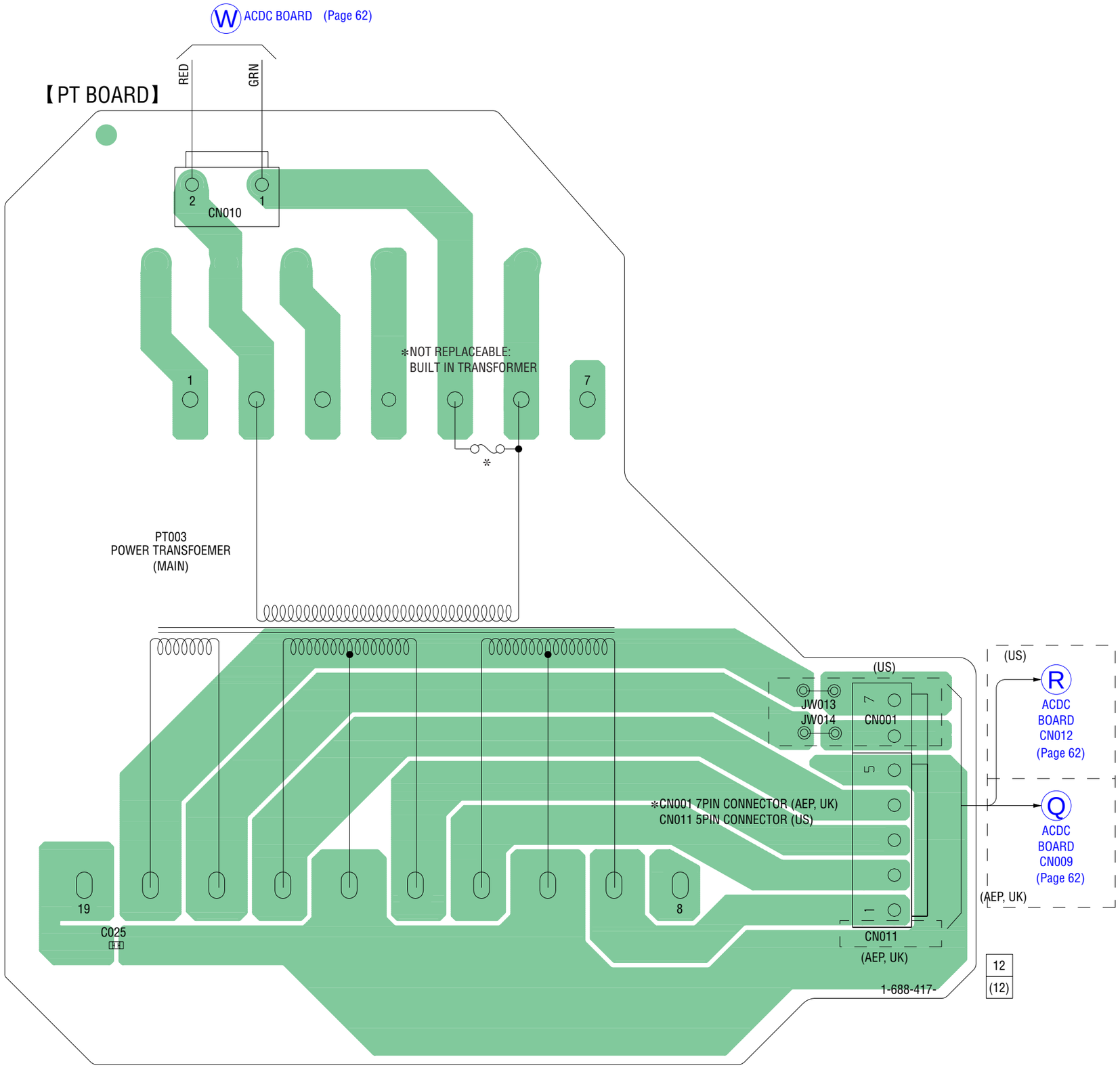


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

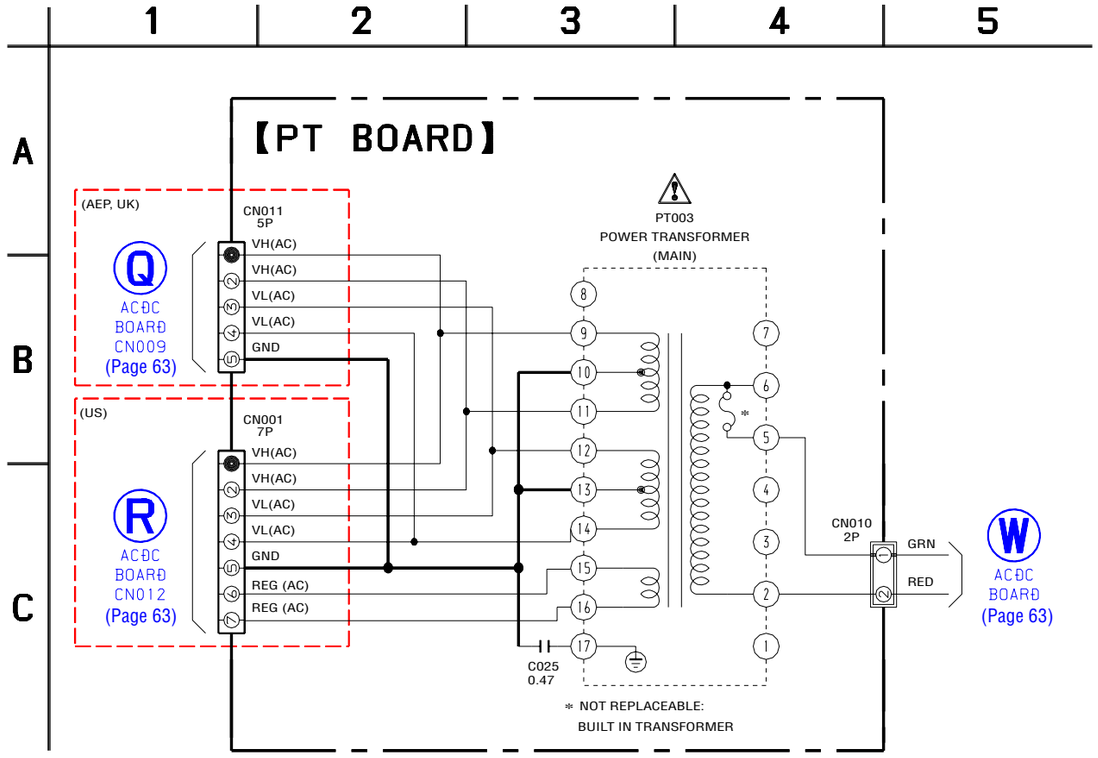
8-34. PRINTED WIRING BOARD – PT Board (US, AEP and UK models) –

• See page 35 for Circuit Boards Location.

:Uses unleaded solder.



8-35. SCHEMATIC DIAGRAM – PT Board (US, AEP and UK models) –

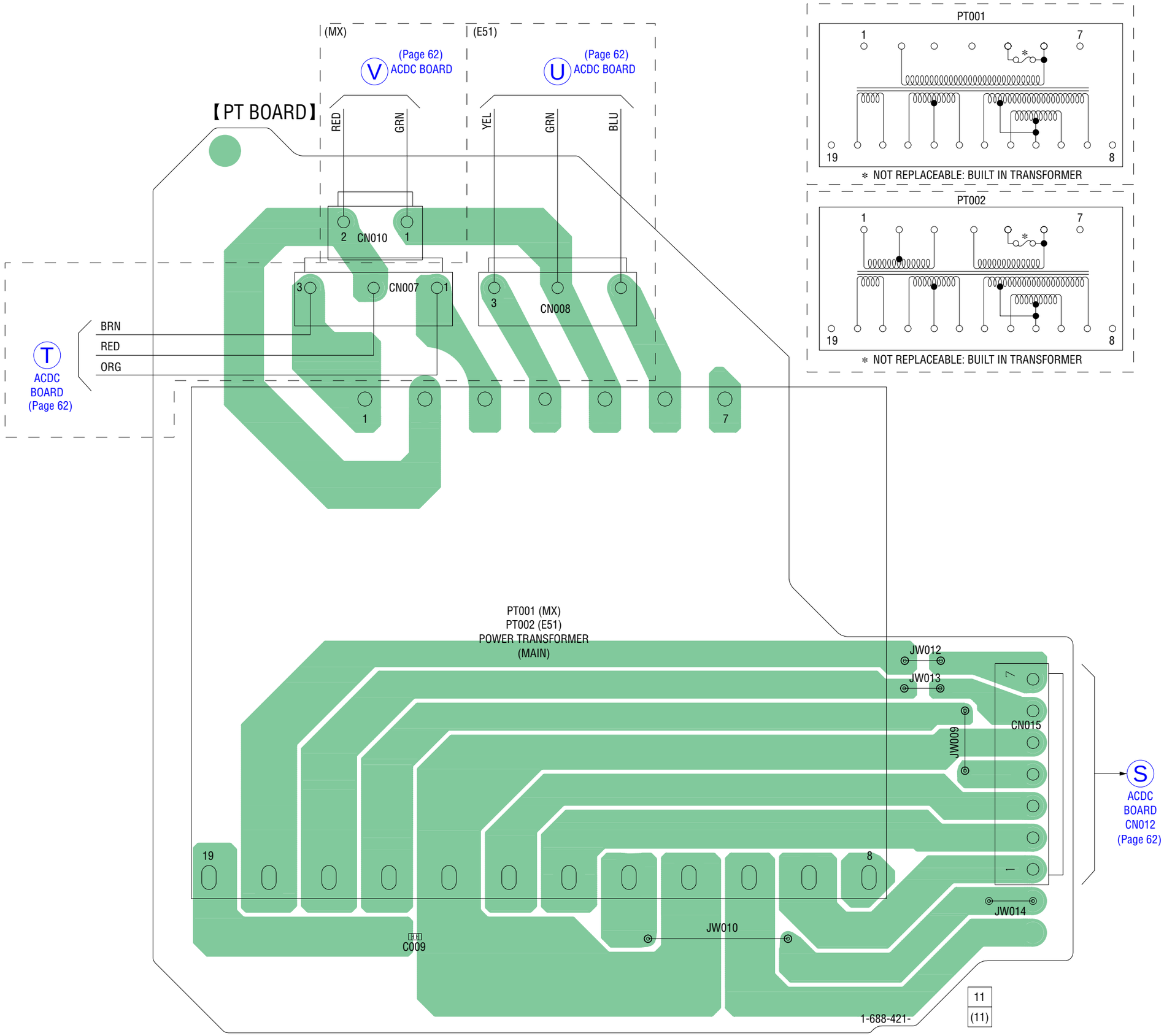


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

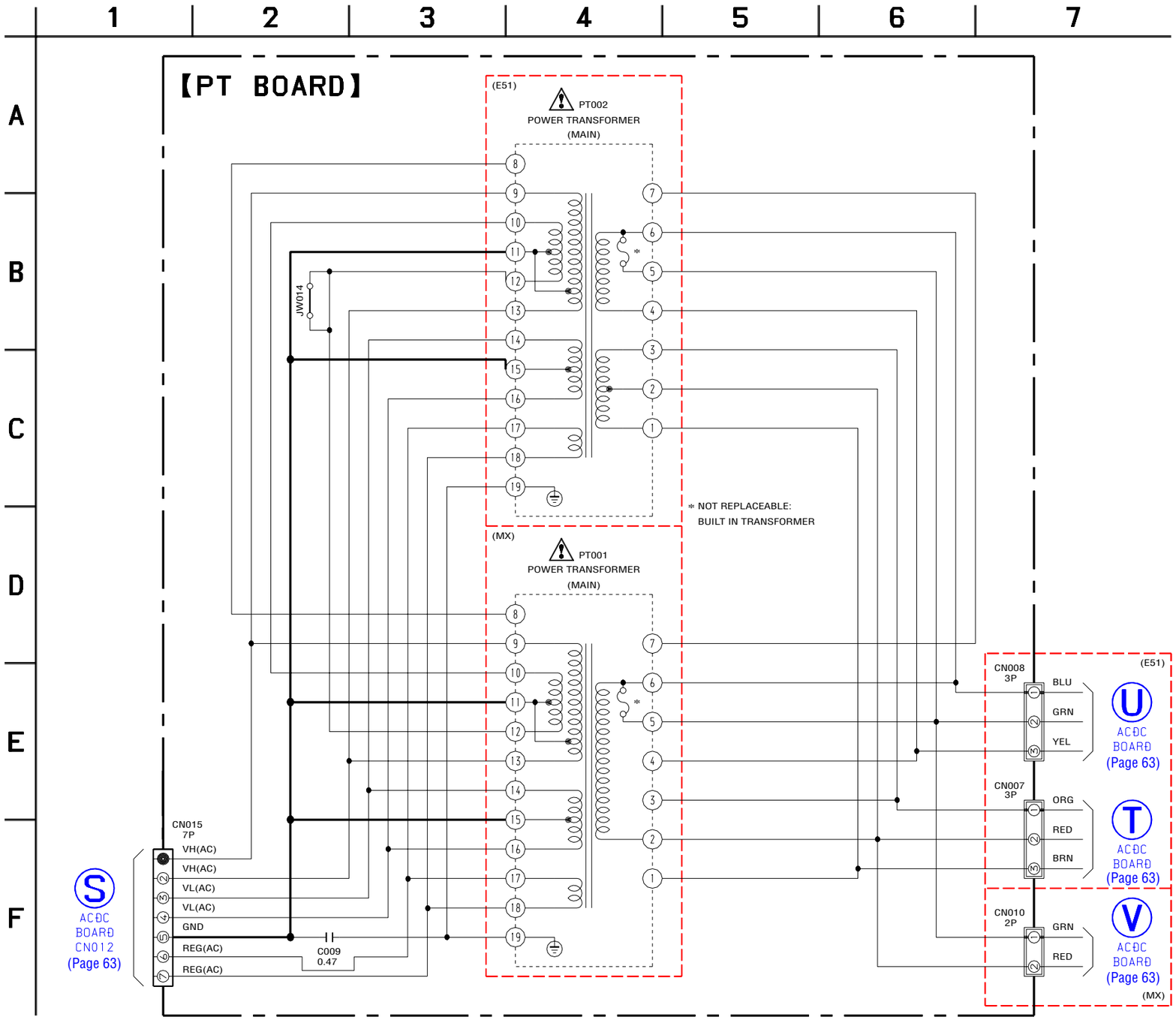
8-36. PRINTED WIRING BOARD – PT Board (Chilean, Peruvian and Mexican models) –

• See page 35 for Circuit Boards Location.

:Uses unleaded solder.



8-37. SCHEMATIC DIAGRAM – PT Board (Chilean, Peruvian and Mexican models) –

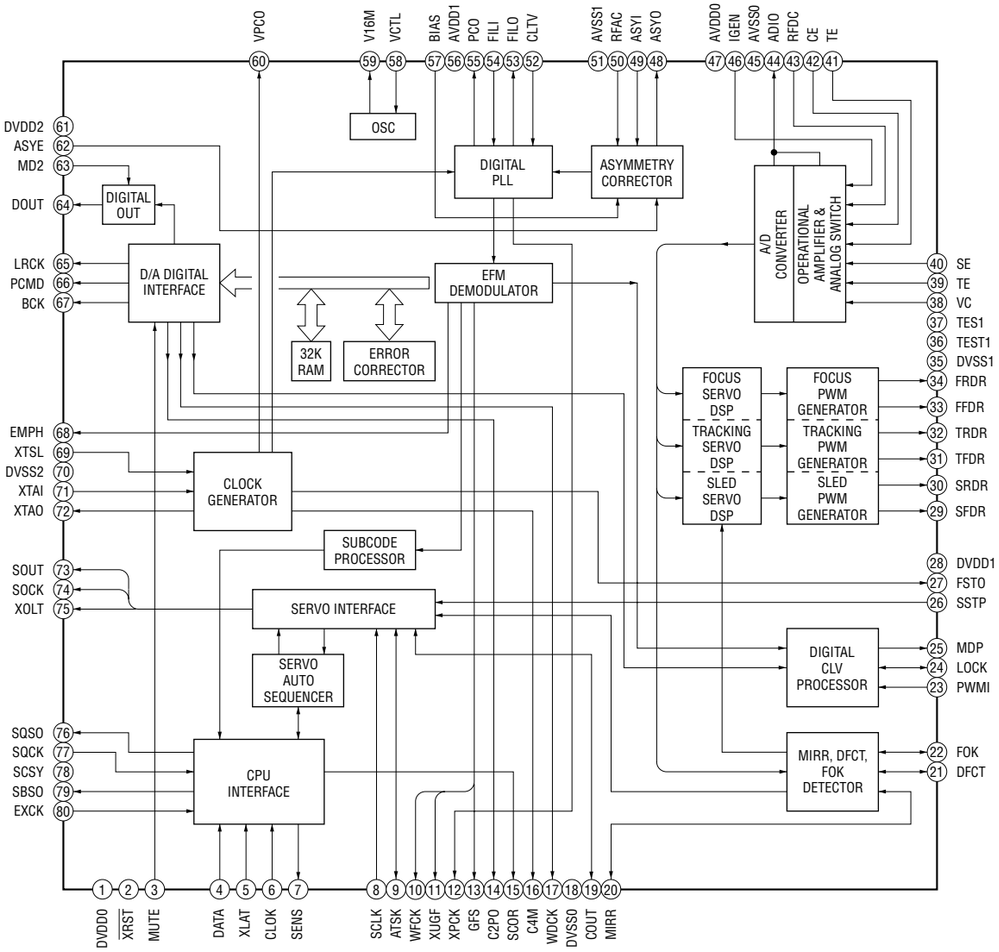


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

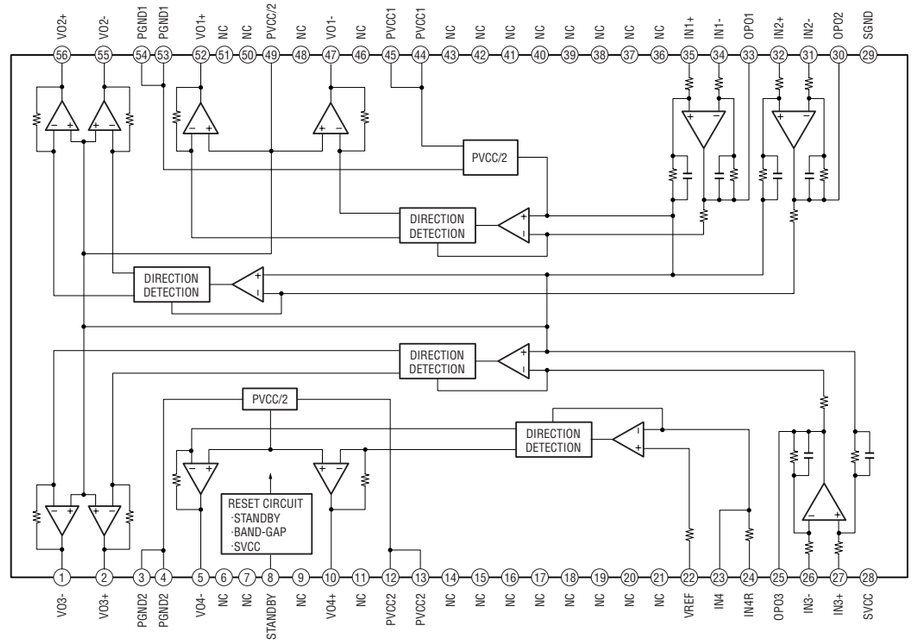
- **IC Block Diagrams**

– BD Board –

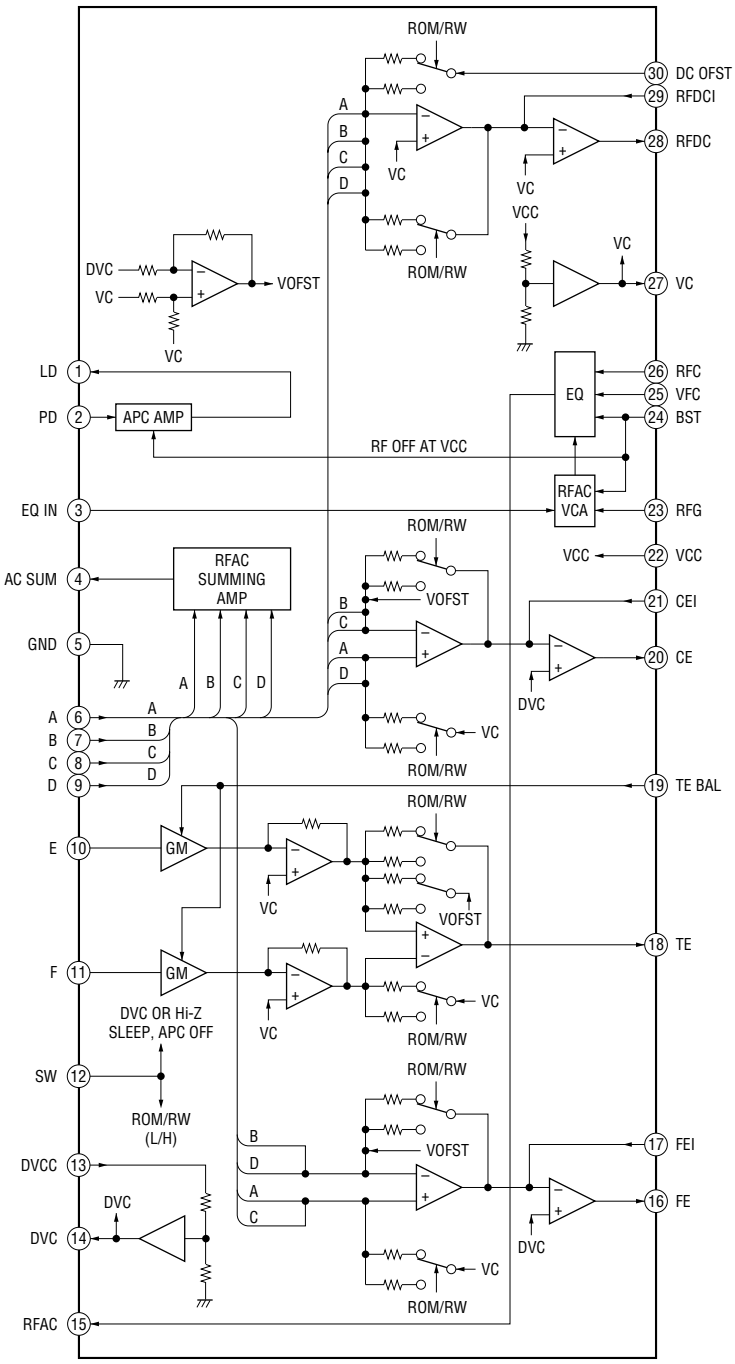
IC101 CXD3068Q



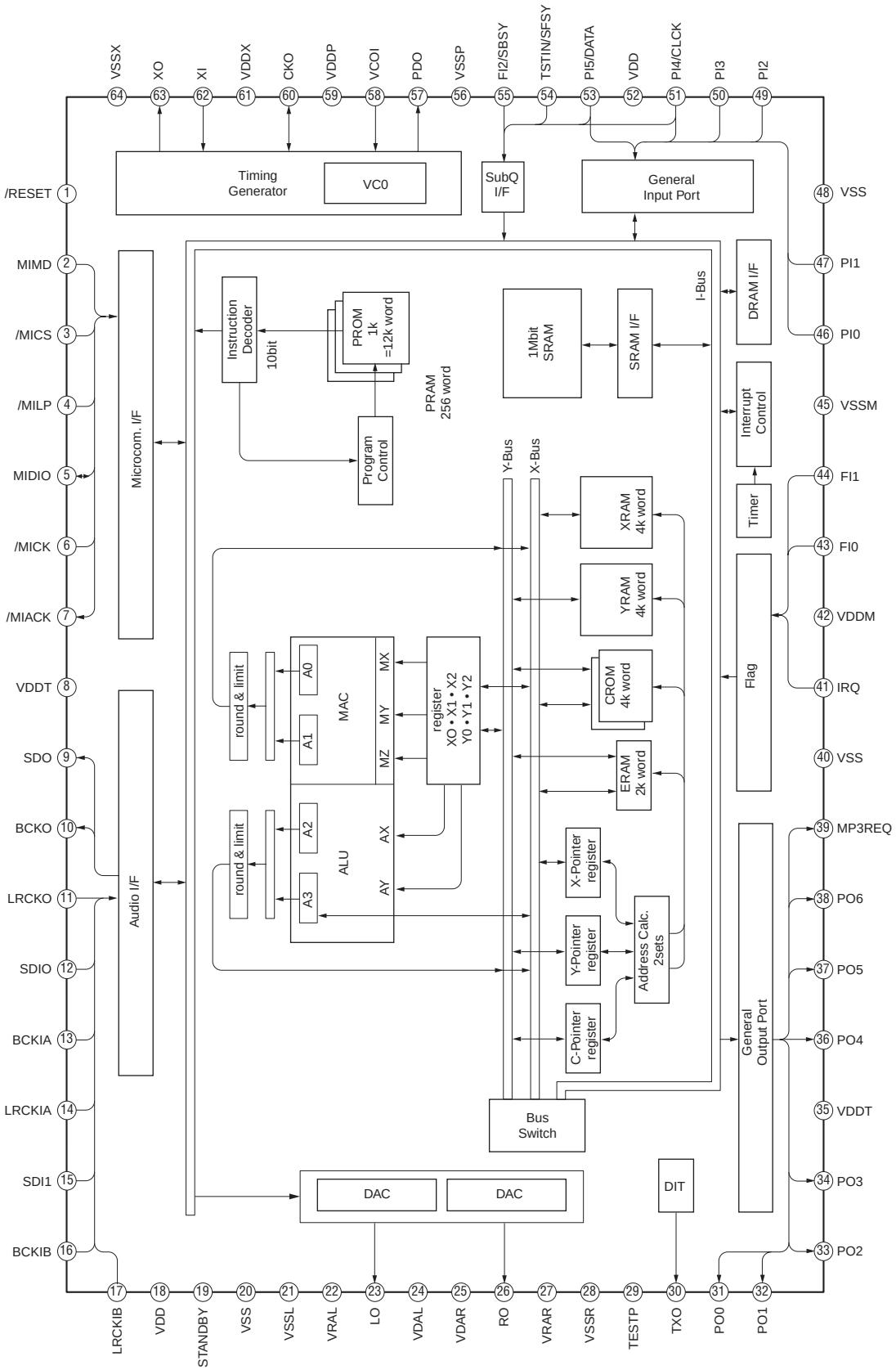
IC102 AN41020A



IC103 CXA2647N-T4

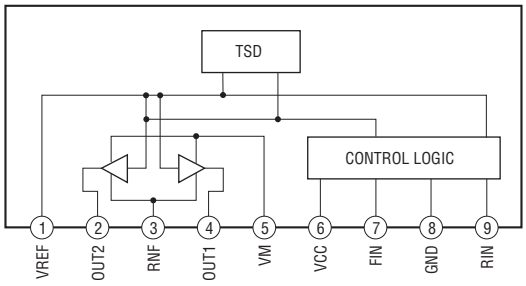


IC104 TC94A20F-CX4



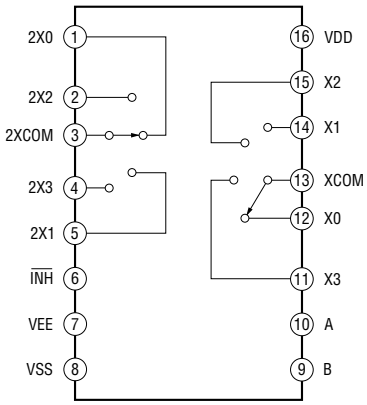
– CONNECTOR Board –

IC701, 711, 721 BA6956AN

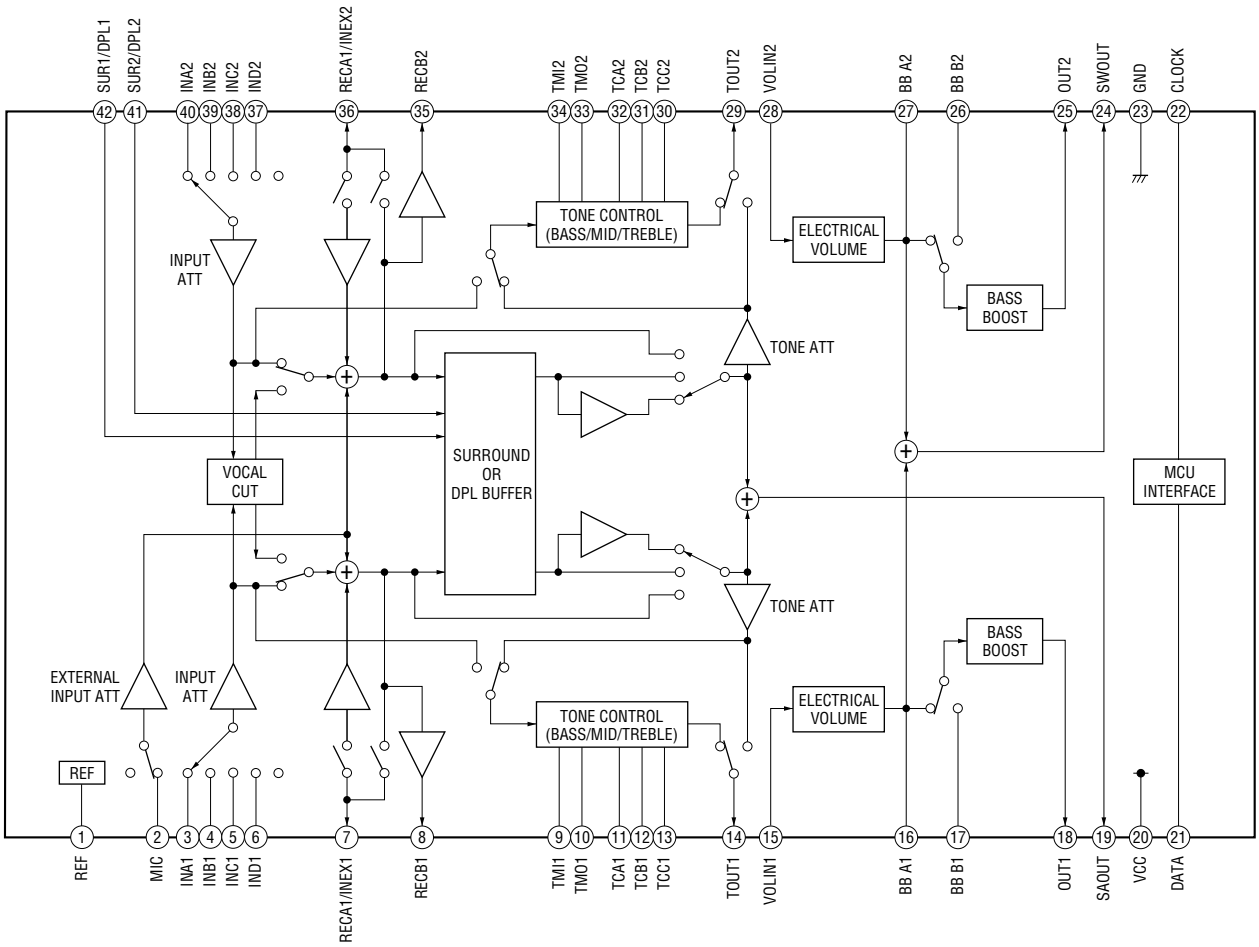


– MAIN Board –

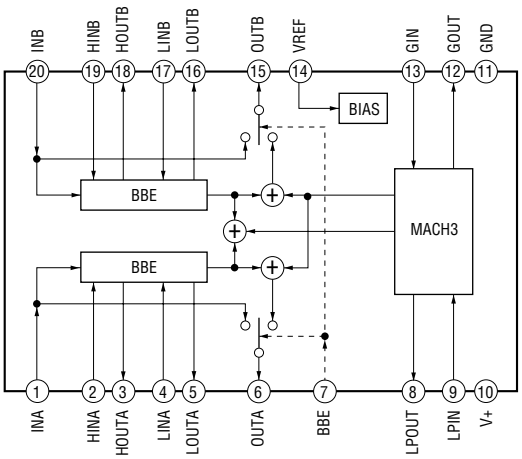
IC501 BU4052BCF-E2



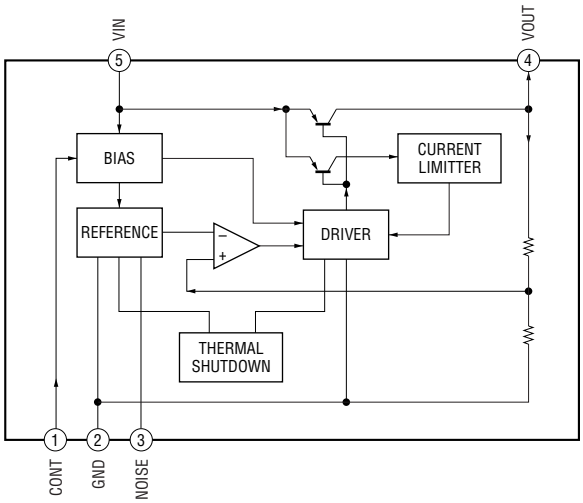
IC601 M61529FP-D60G



IC603 NJM2156M (TE2)



IC905 MM1614A



8-38. IC PIN FUNCTION DESCRIPTION

• BD BOARD IC101 CXD3068Q (DIGITAL SERVO, DIGITAL SERVO PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	DVDD0	—	Power supply terminal (+3.3V) (digital system)
2	XRST	I	Reset signal input from the system controller "L": reset
3	MUTE	I	Muting on/off control signal input terminal "H": muting on Not used
4	DATA	I	Serial data input from the system controller
5	XLAT	I	Serial data latch pulse signal input from the system controller
6	CLOK	I	Serial data transfer clock signal input from the system controller
7	SENS	O	Internal status (SENSE) signal output to the system controller
8	SCLK	I	SENSE serial data reading clock signal input from the system controller
9	ATSK	I/O	Input/output terminal for anti-shock Not used
10	WFCK	O	Write frame clock signal output terminal Not used
11	RFCK	O	RFCK signal output terminal Not used
12	XPCK	O	XPCK signal output terminal Not used
13	GFS	O	Guard frame sync signal output terminal Not used
14	C2PO	O	C2 pointer signal output terminal Not used
15	SCOR	O	Subcode sync (S0+S1) detection signal output to the system controller
16	C4M	O	4.2336 MHz clock signal output terminal Not used
17	WDCK	O	Guard subcode sync (S0+S1) detection signal output terminal Not used
18	DVSS0	—	Ground terminal (digital system)
19	COUT	O	Numbers of track counted signal output terminal Not used
20	MIRR	O	Mirror signal output terminal Not used
21	DFCT	I/O	Defect signal input/output terminal Not used
22	FOK	O	Focus OK signal output terminal Not used
23	PWMI	I	Spindle motor external control signal input terminal Not used
24	LOCK	O	GFS is sampled by 460 Hz "H" output when GFS is "H" Not used
25	MDP	O	Spindle motor servo drive signal output to the motor/coil drive IC
26	SSTP	I	Detection signal input from limit in switch The optical pick-up is inner position when "H"
27	FSTO	O	2/3 divider output terminal Not used
28	DVDD1	—	Power supply terminal (+3.3V) (digital system)
29	SFDR	O	Sled servo drive PWM signal (+) output terminal
30	SRDR	O	Sled servo drive PWM signal (–) output terminal
31	TFDR	O	Tracking servo drive PWM signal (+) output terminal
32	TRDR	O	Tracking servo drive PWM signal (–) output terminal
33	FFDR	O	Focus servo drive PWM signal (+) output terminal
34	FRDR	O	Focus servo drive PWM signal (–) output terminal
35	DVSS1	—	Ground terminal (digital system)
36	TEST	I	Input terminal for the test
37	TES1	I	Input terminal for the test
38	VC	I	Middle point voltage (+1.65V) input terminal
39	FE	I	Focus error signal input from the RF amplifier
40	SE	I	Sled error signal input from the RF amplifier
41	TE	I	Tracking error signal input from the RF amplifier
42	CE	I	Middle point servo analog signal input
43	RFDC	I	RF signal input from the RF amplifier
44	ADIO	O	Output terminal for the test Not used
45	AVSS0	—	Ground terminal (analog system)

Pin No.	Pin Name	I/O	Description
46	IGEN	I	Stabilized current input for operational amplifiers
47	AVDD0	—	Power supply terminal (+3.3V) (analog system)
48	ASYO	O	EFM full-swing output terminal
49	ASYI	I	Asymmetry comparator voltage input terminal
50	RFAC	I	EFM signal input from the RF amplifier
51	AVSS1	—	Ground terminal (analog system)
52	CLTV	I	Internal VCO control voltage input terminal
53	FILO	O	Filter output for master PLL
54	FILI	I	Filter input for master PLL
55	PCO	O	Charge pump output for master PLL
56	AVDD1	—	Power supply terminal (+3.3V) (analog system)
57	BIAS	I	Asymmetry circuit constant current input terminal
58	VCTL	I	VCO control voltage input terminal for the wideband EFM PLL Not used
59	V16M	O	VCO oscillation output terminal for the wideband EFM PLL Not used
60	VPCO	O	Charge pump output terminal for the wideband EFM PLL Not used
61	DVDD2	—	Power supply terminal (+3.3V) (digital system)
62	ASYE	I	Asymmetry circuit on/off control signal input terminal "L": off, "H": on Not used
63	MD2	I	Digital out on/off control signal input terminal "L": digital out off, "H": digital out on Fixed at "H" in this set
64	DOUT	O	Digital audio signal output terminal
65	LRCK	O	L/R sampling clock signal (44.1 kHz) output to the MP3 decoder
66	PCMD	O	Serial data output to the MP3 decoder
67	BCLK	O	Bit clock signal (2.8224 MHz) output to the MP3 decoder
68	EMPH	O	"L" is output when playback disc is emphasis off "H" is output when playback disc is emphasis on Not used
69	XTSL	I	Input terminal for the system clock frequency setting "L": 16.9344 MHz, "H": 33.8688MHz Fixed at "H" in this set
70	DVSS2	—	Ground terminal (digital system)
71	XTAI	I	System clock input terminal (33.8688 MHz)
72	XTAO	O	System clock output terminal (33.8688 MHz) Not used
73	SOUT	O	Serial data output terminal Not used
74	SOCK	O	Serial data reading clock signal output terminal Not used
75	XOLT	O	Serial data latch pulse signal output terminal Not used
76	SQSO	O	Subcode Q data output to the system controller
77	SQCK	I	Subcode Q data reading clock signal input from the system controller
78	SCSY	I	Input terminal for resynchronism of guard subcode sync (S0+S1) Not used
79	SBSO	O	Subcode serial data output terminal Not used
80	EXCK	I	Subcode serial data reading clock signal input terminal Not used

• MAIN BOARD IC901 uPD703260YGF-S04-JBT-A (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	RDS_SIG	I	Tuning signal level input from the RDS decoder Used for the AEP, UK models
2	RDS_DATA	I	Serial data input from the RDS decoder Used for the AEP, UK models
3	AVREF0	—	Reference voltage (+3.1V) input terminal
4	AVSS	—	Ground terminal
5	MICS	O	Chip select signal output to the MP3 decoder
6	DO	I	Serial data input from the tuner unit
7	AVREF1	—	Power supply terminal (+3.1V)
8	STEREO	I	Stereo detection signal input from the tuner unit
9	TUNE	I	Tuner tuned status signal from the tuner unit
10	FLMD0	—	Not used
11	VDD	—	Power supply terminal (+3.1V)
12	REGC	—	Connected to the external capacitor
13	VSS	—	Ground terminal
14	X1	I	Main system clock input terminal (5MHz)
15	X2	O	Main system clock output terminal (5MHz)
16	$\overline{\text{RESET}}$	I	Reset signal input from the reset signal generator "L": reset
17	XT1	I	Sub system clock input terminal (32.768kHz)
18	XT2	O	Sub system clock output terminal (32.768kHz)
19	MP3RST	O	System reset signal output to the MP3 decoder
20	RDS_CLK	I	Clock signal input from the RDS decoder Microphone detect signal input terminal Used for the AEP, UK, Chilean, Peruvian models
21	SCOR	I	SCOR signal input from the digital signal processor
22	CAN'T_USE	—	Not used
23	$\overline{\text{RMC}}$	I	Remote control signal input from the remote control receiver
24	USB_DATA	I/O	I2C data input/output with the USB interface IC
25	USB_CLK	I/O	I2C clock signal input/output to the USB interface IC
26	DECK_PLAYSW	I	PLAY switch signal input from the tape mechanism deck
27	DECK_ENDSW	I	END switch signal input from the tape mechanism deck
28	DECK_PACK	I	PACK switch signal input from the tape mechanism deck
29	DECK_FREC	I	Record protect detect switch signal input from the tape mechanism deck (front)
30	DECK_RREC	I	Record protect detect switch signal input from the tape mechanism deck (rear)
31	USB_ACK	I	Acknowledge signal input from the USB interface IC
32	USB_INT	I	Interrupt request signal input from the USB interface IC
33	USB_VBUS_ON	O	VBUS control signal output terminal
34	$\overline{\text{STBY}}$	O	Standby LED control signal output terminal
35	EVSS	—	Ground terminal
36	EVDD	—	Power supply terminal (+3.1V)
37	MIACK	I	Acknowledge signal input from the MP3 decoder
38	MP3STB	O	Strobe signal output to the MP3 decoder
39	MUTE	O	Muting control signal output to power amplifier circuit
40	POWER	O	Main power control signal output terminal
41	POWER_DOWN	I	Power down detection signal input terminal
42	HEADPHONE	I	Headphone detection signal input "L": headphone on
43	SHIFT_CLK	O	Serial data transfer clock signal output to the shift register

Pin No.	Pin Name	I/O	Description
44	SHIFT_DATA	O	Serial data output to the shift register
45	SHIFT_STB	O	Strobe signal output to the shift register
46	PLLCE	O	Latch signal output to the tuner unit
47	PWM1	O	PWM signal output for focus offset adjustment
48	MCLK	O	Serial data transfer clock signal output to the tuner unit and input select IC
49	PWM3	O	PWM signal output for RF offset adjustment
50	MDATA	O	Serial data output to the tuner unit and input select IC
51	PWM2	O	PWM signal output for tracking offset adjustment
52	DATA	O	Serial data output to the digital signal processor
53	LCD_DATA	O	Serial data output to the LCD driver
54	LCD_CLK	O	Serial data transfer clock output to the LCD driver
55	CLOCK	O	Serial data transfer clock output to the digital signal processor
56	SQSO	I	Sub-Q data input from the digital signal processor
57	SQCK	O	Sub-Q clock output to the digital signal processor
58	SENS	I	SENS signal input from the digital signal processor
59	LDON	O	Laser diode on/off control signal output to the automatic power control circuit “H”: laser on
60	XLT	O	Control data latch signal output to the digital signal processor
61	XRST	O	System reset signal output to the digital signal processor and motor/coil drive IC
62	MICK	O	Serial data transfer clock signal output to the MP3 decoder
63	LCD_CE	O	Latch signal output to the LCD driver
64	MIDIO	I/O	Serial data input/output to/form the MP3 decoder
65	MP3REQ	O	Request signal output to the MP3 decoder
66	MILP	O	Latch pulse signal output to the MP3 decoder
67	ELV_E2	I	ELV_E2 switch signal input from the CD mechanism
68	ELV_E3	I	ELV_E3 switch signal input from the CD mechanism
69	ELV_E1	I	ELV_E1 switch signal input from the CD mechanism
70	SLD_E3	I	SLD_E3 switch signal input from the CD mechanism
71	BVSS	—	Ground terminal
72	BVDD	—	Power supply terminal
73	SLD_E1	I	SLD_E1 switch signal input from the CD mechanism
74	SW5-B	I	SW4 switch signal input from the CD mechanism
75	ELV_POS	O	Elevator motor control signal output for the CD mechanism
76	SLD_POS	O	Loading motor control signal output for the CD mechanism
77	LOD_POS	O	Sled motor control signal output for the CD mechanism
78	SW4	I	SW5-B switch signal input from the CD mechanism
79	SW2-A	I	SW2-A switch signal input from the CD mechanism
80	SW3	I	SW3 switch signal input from the CD mechanism
81	D_SENSOR	I	Disc sensor signal input from the CD mechanism
82	SW1-A	I	SW1-A switch signal input from the CD mechanism
83	SW2-B	I	SW2-B switch signal input from the CD mechanism
84	SW5-A	I	SW5-A switch signal input from the CD mechanism
85	LOD_NEG	O	Sled motor control signal output for the CD mechanism
86	SLD_NEG	O	Loading motor control signal output for the CD mechanism
87	ELV_NEG	O	Elevator motor control signal output for the CD mechanism
88	SLD_E0	I	SLD_E0 switch signal input from the CD mechanism
89	SLD_E2	I	SLD_E2 switch signal input from the CD mechanism

Pin No.	Pin Name	I/O	Description
90	ELV_E0	I	ELV_E0 switch signal input from the CD mechanism
91	RE_TRE	I	Jog dial pulse input from the rotary encoder (TREBLE/MIDDLE)
92	RE_BAS	I	Jog dial pulse input from the rotary encoder (BASS)
93	RE_VOL	I	Jog dial pulse input from the rotary encoder (VOLUME)
94	RE_JOG	I	Jog dial pulse input from the rotary encoder (MULTIJOG)
95	KEY3	I	Key input terminal (A/D input)
96	KEY2	I	Key input terminal (A/D input)
97	KEY1	I	Key input terminal (A/D input)
98	POWER_MONI	I	Voltage detection signal input terminal
99	LEVEL	I	Level mater signal input terminal
100	SUFIX	I	Destination setting input terminal

• USB AUX BOARD IC700 uAC3553B (USB INTERFACE)

Pin No.	Pin Name	I/O	Description
1	XTI	I	System clock input terminal (12MHz)
2	XTO	O	System clock output terminal (12MHz)
3	AREG1	I	Connected to the external capacitor
4	AVSS_12	—	Ground terminal
5	OUTL	O	USB audio signal output terminal (L-ch)
6	OUTR	O	USB audio signal output terminal (R-ch)
7	AREG0	I	Connected to the external capacitor
8	AVDD	—	Power supply terminal (+5V)
9	DAI	I	Not used
10	WSI	I	Not used
11	CLI	I	Not used
12	INT_DATA	O	Interrupt request signal output to the USB interface IC
13	ACK	O	Acknowledge signal output to the USB interface IC
14 to 19	NC	—	Not used
20	SDA	I/O	I2C data input/output with the system controller
21	SCL	I/O	I2C clock signal input/output to the system controller
22	TRDY	I	Not used
23	VREG	I	Connected to the external capacitor
24	VBUS	I	USB connect detection signal input terminal
25	D–	I	USB data (–) input terminal
26	D+	I	USB data (+) input terminal
27	VSS	—	Ground terminal
28	VDD	—	Power supply terminal (+5V)
29	TEST	I	For test terminal
30	REST	I	Not used
31	SUSPEND	I	Not used
32	SOF	I	Not used
33	SEN	I	Not used
34	FOUTL	O	USB audio signal output terminal (L-ch)
35	FOPL	I	Not used
36	FINL	O	USB audio signal input terminal (L-ch)
37	FOUTR	O	USB audio signal output terminal (R-ch)
38	FOPR	I	Not used
39	FINR	O	USB audio signal input terminal (R-ch)
40, 41	NC	—	Not used
42	SGND	—	Ground terminal
43	SREF	I	Not used
44	NC	I	Not used

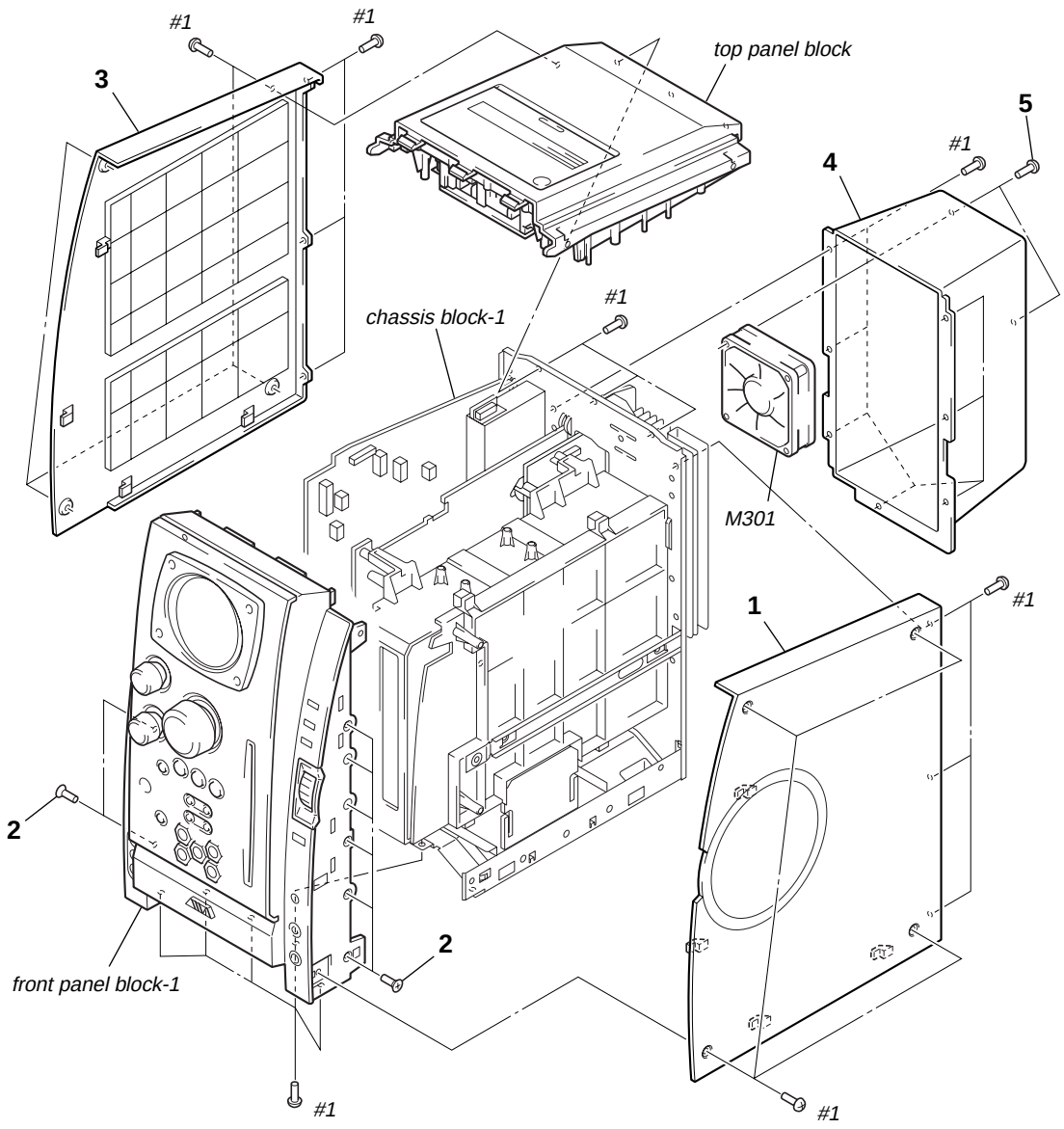
SECTION 9
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Tape deck is not loaded in US model.
  The shape of the top panel shown in "EXPLODED VIEWS" is different from the actual shape.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- Abbreviation
  E51 : Chilean and Peruvian models
  MX : Mexican model

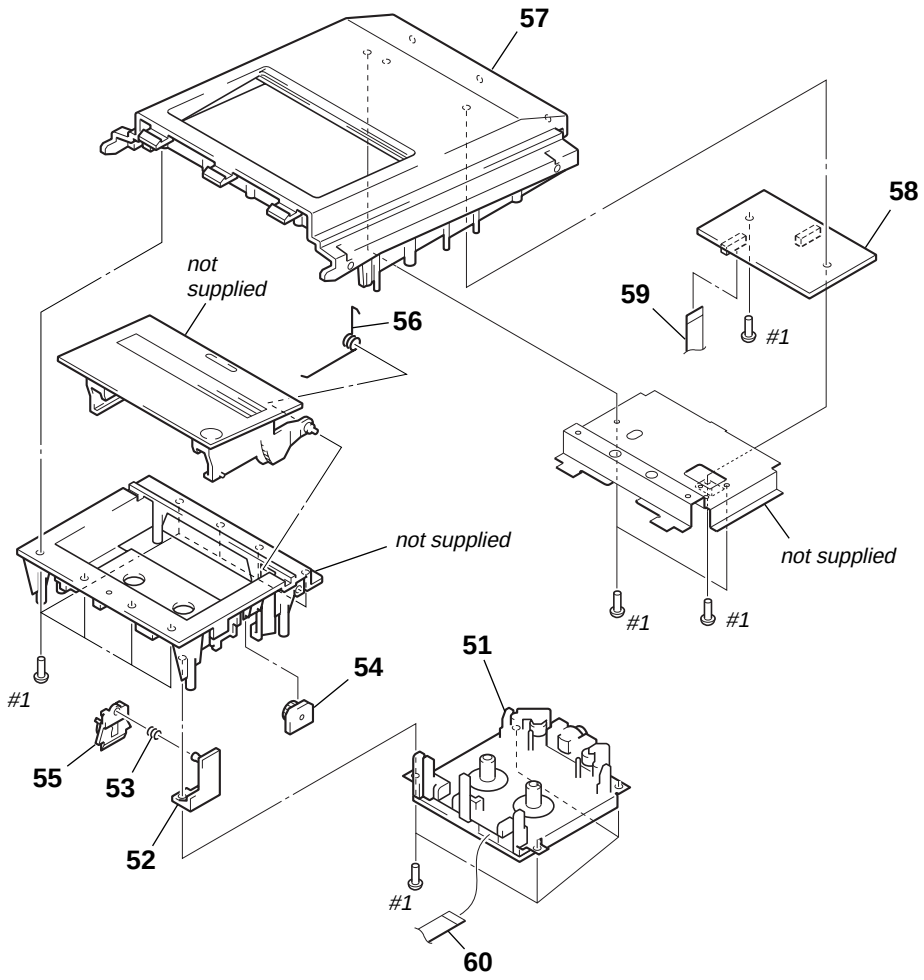
9-1. PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	4-245-038-01	PANEL, RIGHT (US)	
1	4-245-038-11	PANEL, RIGHT (AEP, UK, E51, MX)	
2	4-242-531-01	QT2+3-10 TYPE2 IT-3	
3	4-245-073-01	PANEL (LEFT) (US)	
3	4-245-073-11	PANEL (LEFT) (AEP, UK, E51, MX)	
4	4-245-039-01	COVER, REAR (US)	
4	4-245-039-11	COVER, REAR (E51)	
4	4-245-039-21	COVER, REAR (AEP, UK)	
4	4-245-039-31	COVER, REAR (MX)	
5	4-951-620-01	SCREW (2.6X8), +BVTP	
M301	1-763-072-11	FAN, DC	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

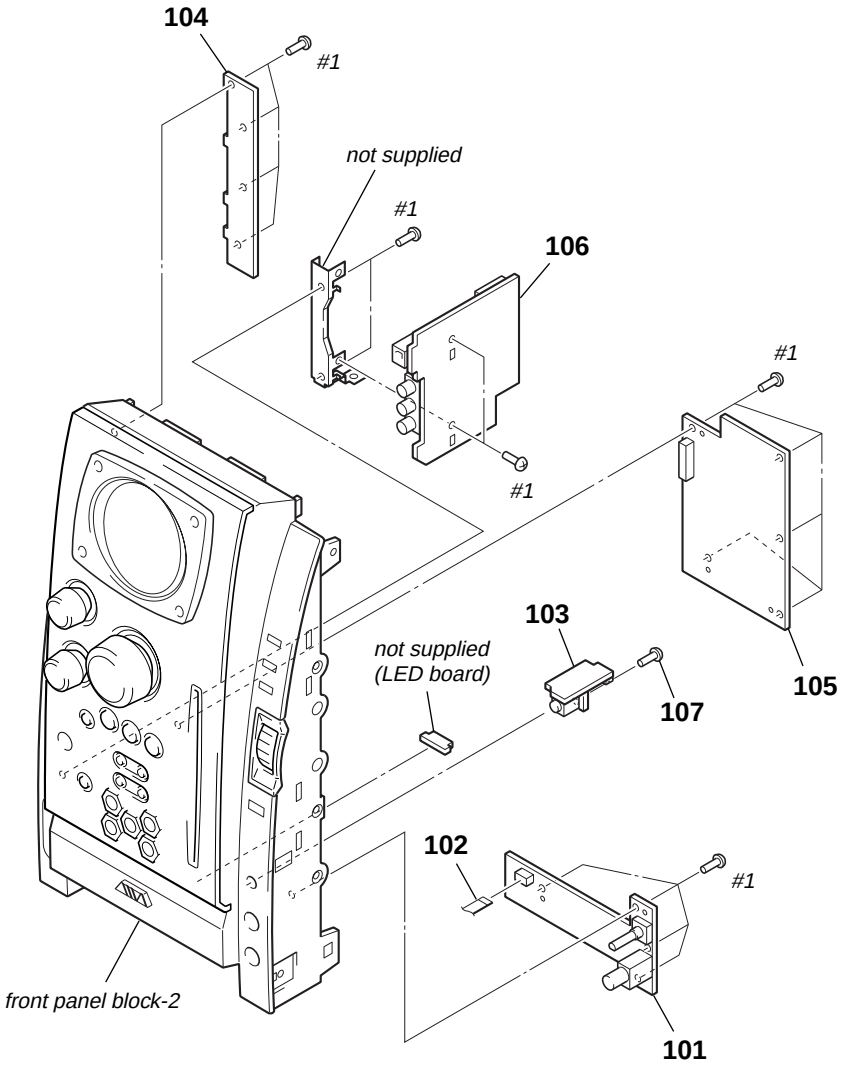
9-2. TOP PANEL BLOCK

Note: Tape deck is not loaded in US model.
The shape of the top panel shown in "EXPLODED VIEWS" is different from the actual shape.



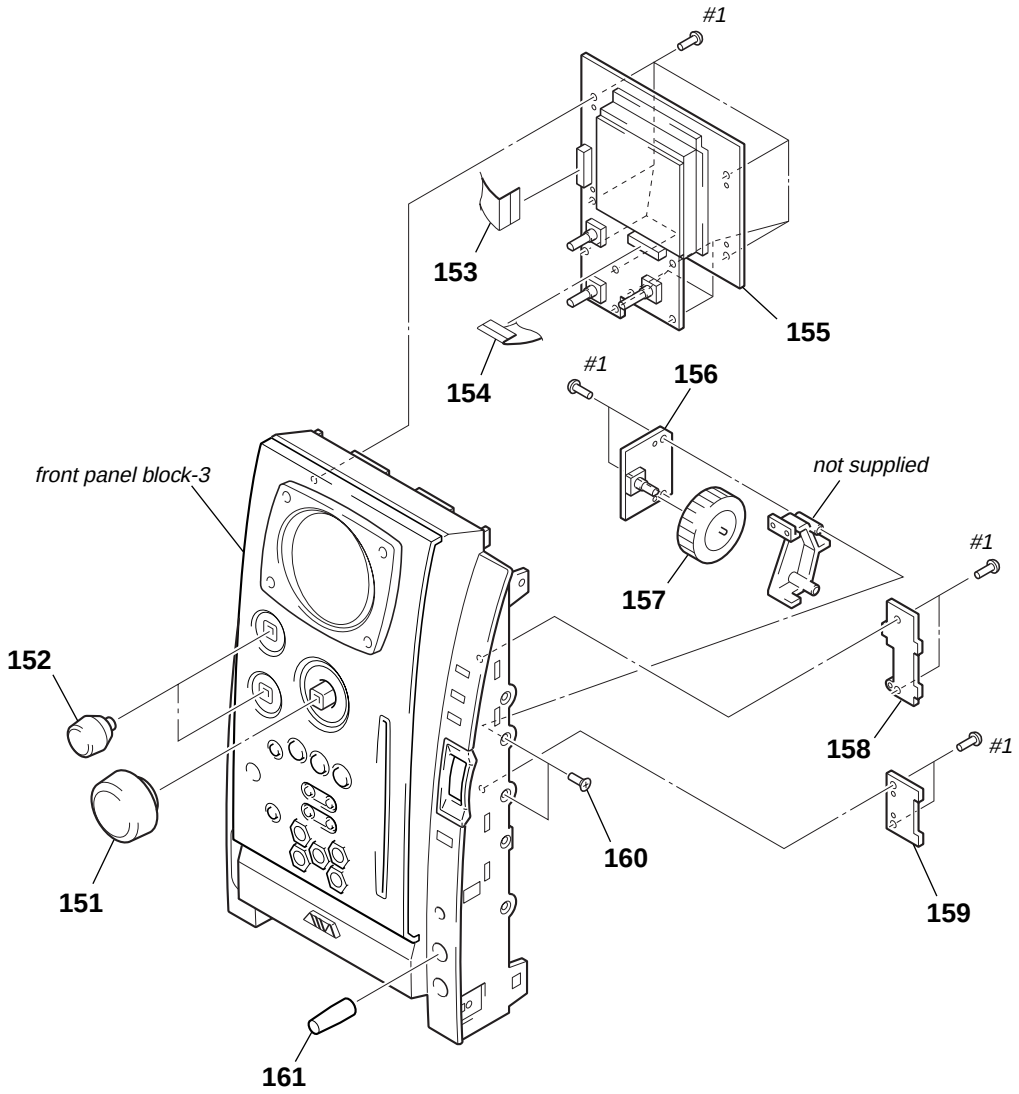
Ref. No.	Part No.	Description	Remark
51	1-796-351-61	MECHANISM, SIGNAL CASSETTE (CMAL1Z241A) (EXCEPT US)	
52	4-242-174-01	HLDR, LOCK 1 (EXCEPT US)	
53	4-242-173-01	SPR-C, LOCK (EXCEPT US)	
54	4-242-171-01	DAMPER 150 N (EXCEPT US)	
55	4-242-172-01	PLATE, LOCK (EXCEPT US)	
56	4-247-458-01	SPRING (CASS), TORSION (EXCEPT US)	
57	4-245-072-01	PANEL, TOP (US)	
57	4-245-072-11	PANEL, TOP (EXCEPT US)	
58	A-4733-420-A	DECK BOARD, COMPLETE (EXCEPT US)	
59	1-765-326-11	WIRE (FLAT TYPE) (11 CORE) (EXCEPT US)	
60	1-827-677-11	WIRE (FLAT TYPE) (8 CORE) (EXCEPT US)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

9-3. FRONT PANEL BLOCK-1



Ref. No.	Part No.	Description	Remark
101	A-4733-419-A	MIC BOARD, COMPLETE (E51, MX)	
102	1-769-869-11	WIRE (FLAT TYPE) (5 CORE) (E51, MX)	
103	1-688-414-11	HEADPHONE BOARD	
104	1-688-407-11	LEFT BUTTON BOARD	
105	A-4733-395-A	KEY LED RMC BOARD, COMPLETE	
106	A-4733-399-A	USB AUX BOARD, COMPLETE	
107	3-229-336-01	SCREW, +BVWH TAPPING	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

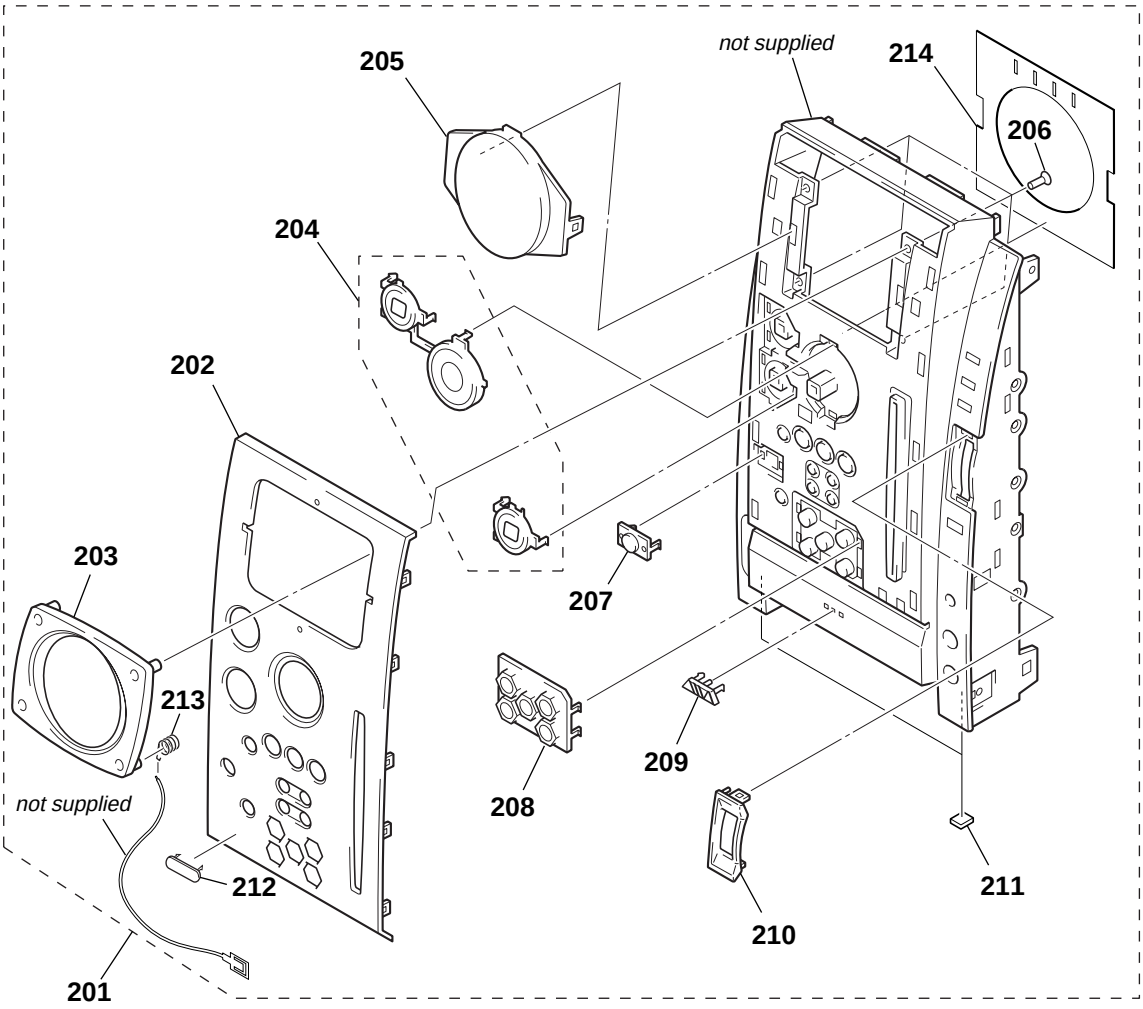
9-4. FRONT PANEL BLOCK-2



Ref. No.	Part No.	Description	Remark
151	X-4955-595-1	VOL ASSY, KNOB RTRY	
152	X-4955-596-1	TRE ASSY, KNOB RTRY	
153	1-773-115-11	WIRE (FLAT TYPE) (19 CORE)	
154	1-773-156-11	WIRE (FLAT TYPE) (21 CORE)	
155	A-4733-394-A	LCD VOL BOARD, COMPLETE	
156	1-688-413-11	JOG BOARD	

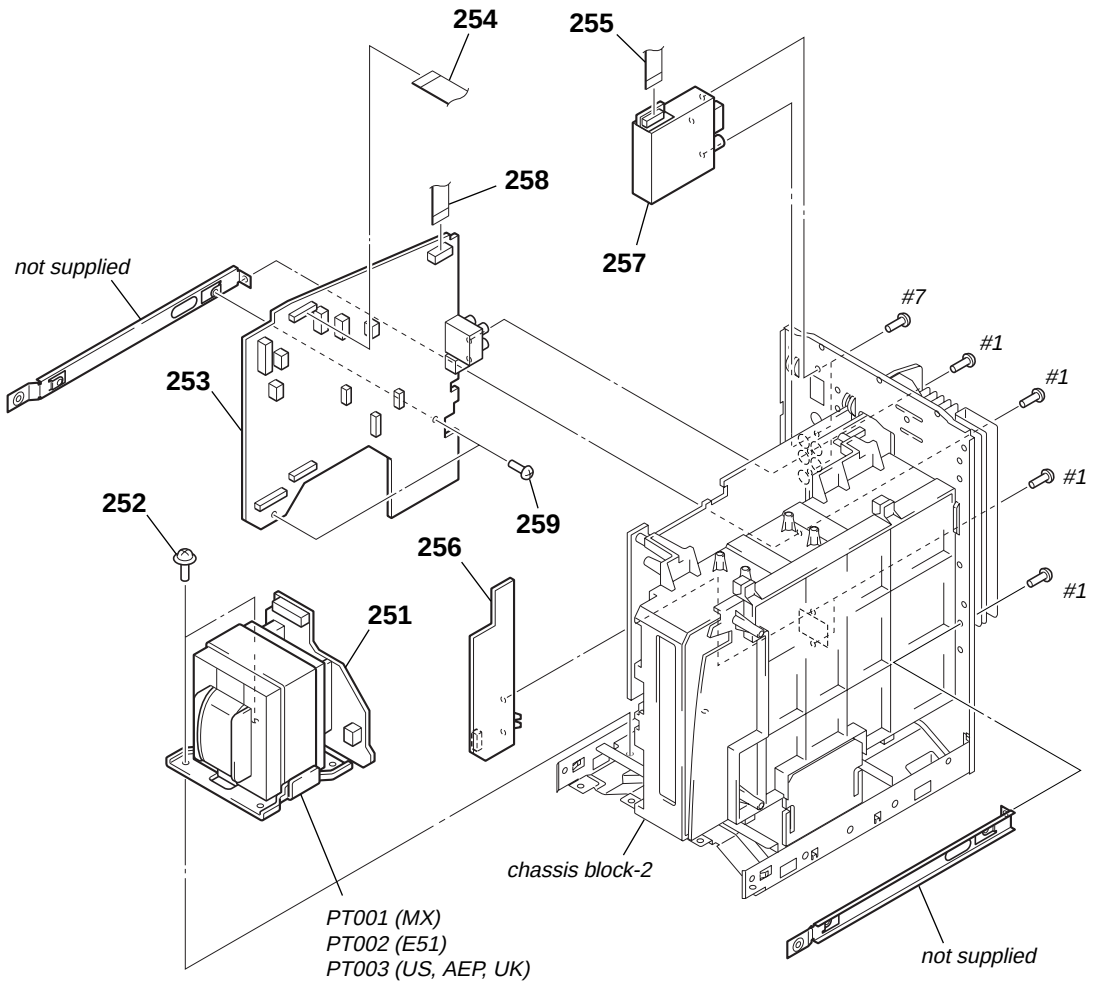
Ref. No.	Part No.	Description	Remark
157	4-245-101-01	KNOB (JOG), ROTARY	
158	1-688-408-11	RIGHT BUTTON (1) BOARD	
159	1-688-409-11	RIGHT BUTTON (2) BOARD	
160	4-242-531-01	QT2+3-10 TYPE2 IT-3	
161	4-245-089-01	KNOB (MIC), ROTARY (E51, MX)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

9-5. FRONT PANEL BLOCK-3



Ref. No.	Part No.	Description	Remark
201	X-4955-409-2	CABI, FR ASSY (US)	
201	X-4955-727-2	CABINET (FRONT) ASSY (E51, MX)	
201	X-4955-728-2	CABINET (FRONT) ASSY (AEP, UK)	
202	4-245-075-01	PANEL, FRONT (US)	
202	4-245-075-11	PANEL, FRONT (AEP, UK, E51, MX)	
203	X-4955-408-1	PANEL,DISP ASSY	
204	4-245-098-01	REFLECTOR (VOL)	
205	4-245-078-01	WINDOW, DISPLAY	
206	4-242-531-01	QT2+3-10 TYPE2 IT-3	
207	4-245-088-01	WINDOW, SENSOR	
208	4-245-094-01	PANEL, CD DIRECT	
209	4-245-158-01	EMBLEM	
210	4-245-077-01	PANEL (JOB)	
211	4-242-091-01	CUSHION	
212	4-246-682-01	EMBLEM (30), MP3	
213	4-250-402-01	SPRING (PANEL), GROUND	
214	2-249-914-01	SHEET, INSULATED	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

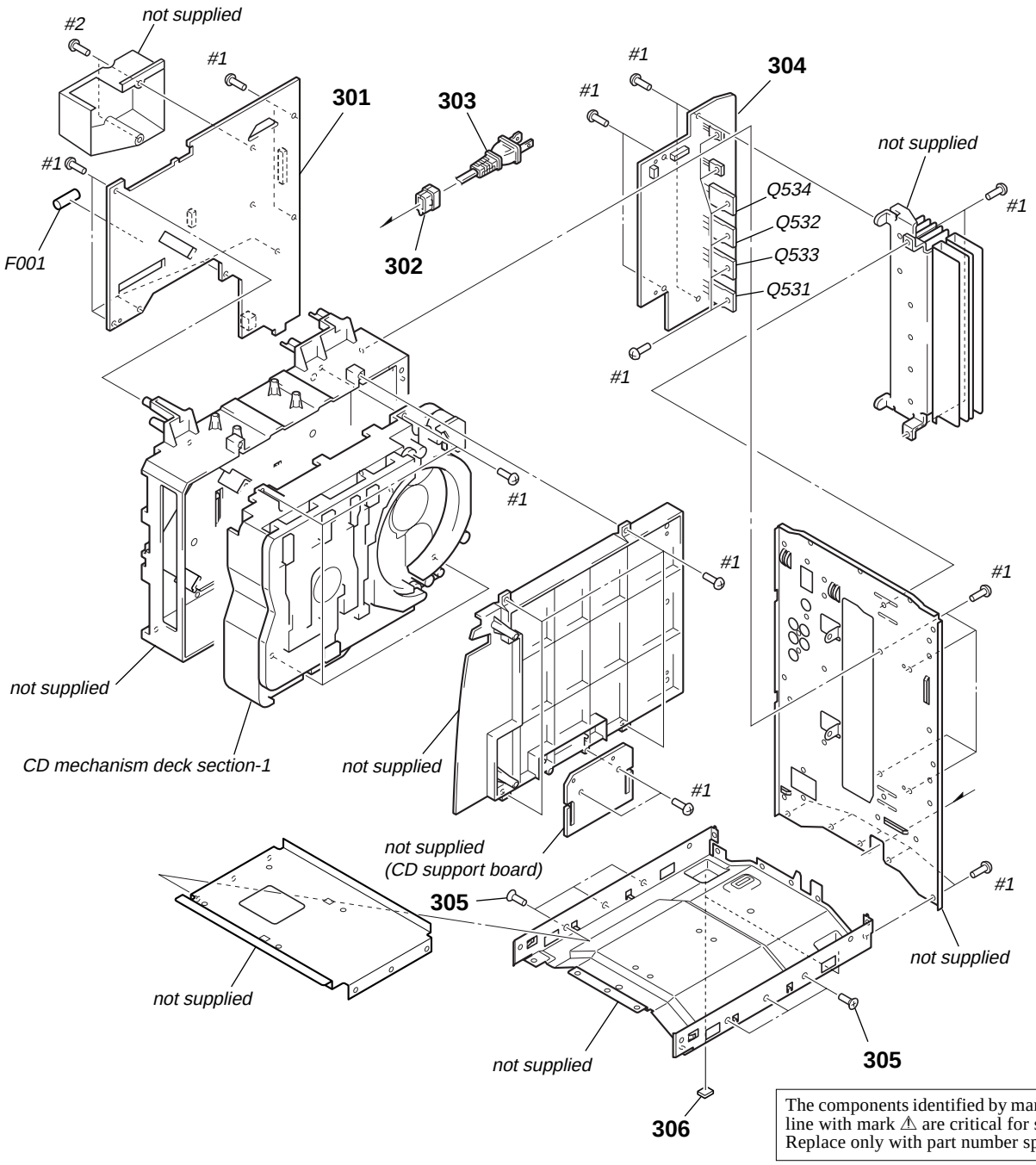
9-6. CHASSIS BLOCK-1



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
251	1-688-417-11	PT BOARD (US, AEP, UK)	
251	1-688-421-11	PT BOARD (E51, MX)	
252	4-242-527-01	S-SCREW, ITC+4-8 R	
253	A-4733-389-A	MAIN BOARD, COMPLETE (US)	
253	A-4733-423-A	MAIN BOARD, COMPLETE (E51, MX)	
253	A-4733-440-A	MAIN BOARD, COMPLETE (AEP, UK)	
254	1-765-334-11	WIRE (FLAT TYPE) (17 CORE)	
255	1-769-943-11	WIRE (FLAT TYPE) (11 CORE) (US, E51, MX)	
255	1-773-007-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)	
256	1-688-419-11	SPEAKER BOARD	
257	1-693-625-11	TUNER (FM/AM) (US)	
257	1-693-626-11	TUNER (FM/AM) (AEP, UK)	
257	1-693-628-11	TUNER (FM/AM) (E51, MX)	
258	1-769-944-11	WIRE (FLAT TYPE) (11 CORE)	
259	4-242-519-01	BVT2+3-6 W/O SLOT	
⚠PT001	1-439-796-11	TRANSFORMER, POWER (MX)	
⚠PT002	1-439-795-11	TRANSFORMER, POWER (E51)	
⚠PT003	1-439-794-11	TRANSFORMER, POWER (US)	
⚠PT003	1-439-797-11	TRANSFORMER, POWER (AEP, UK)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
#7	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

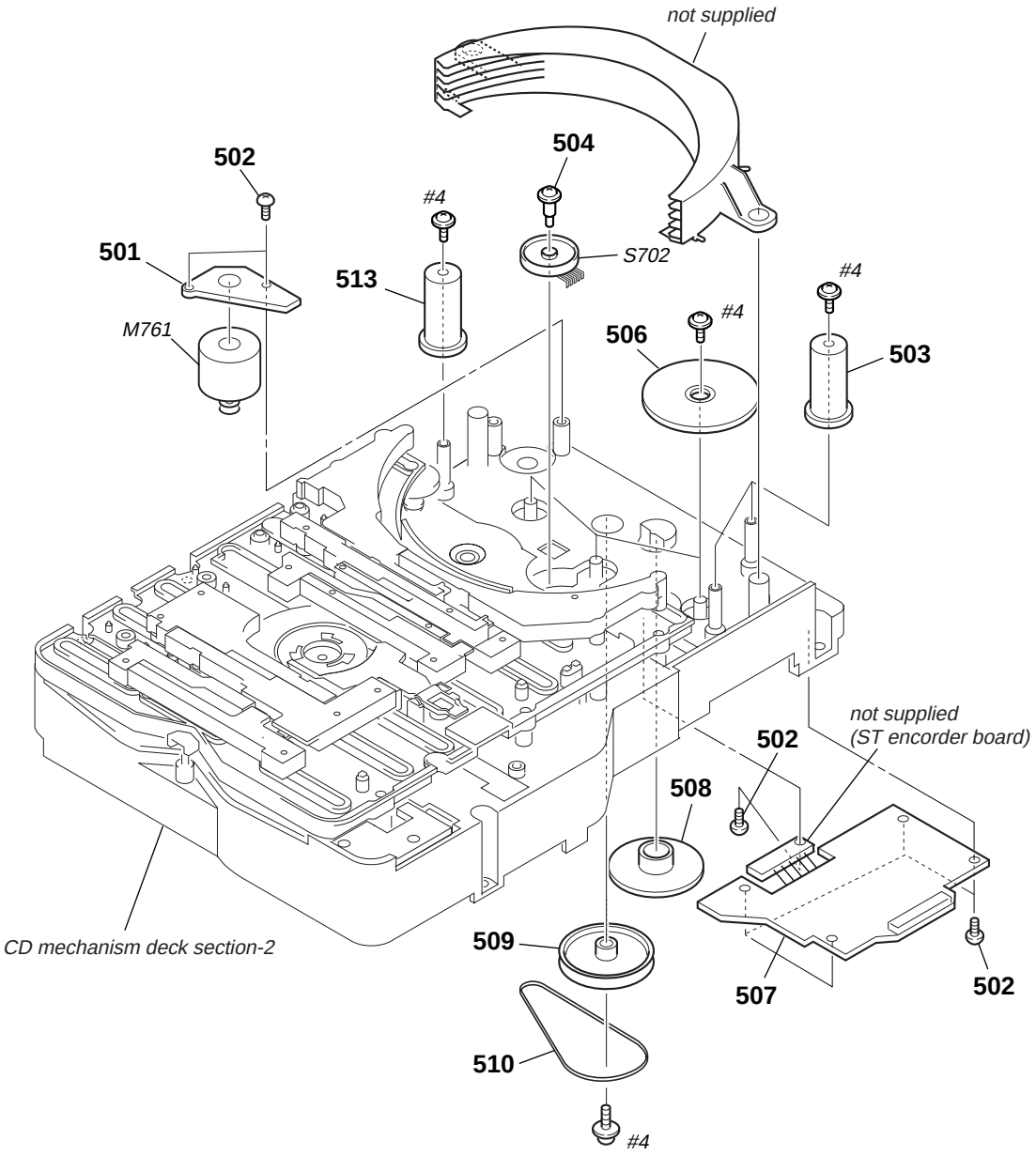
9-7. CHASSIS BLOCK-2



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

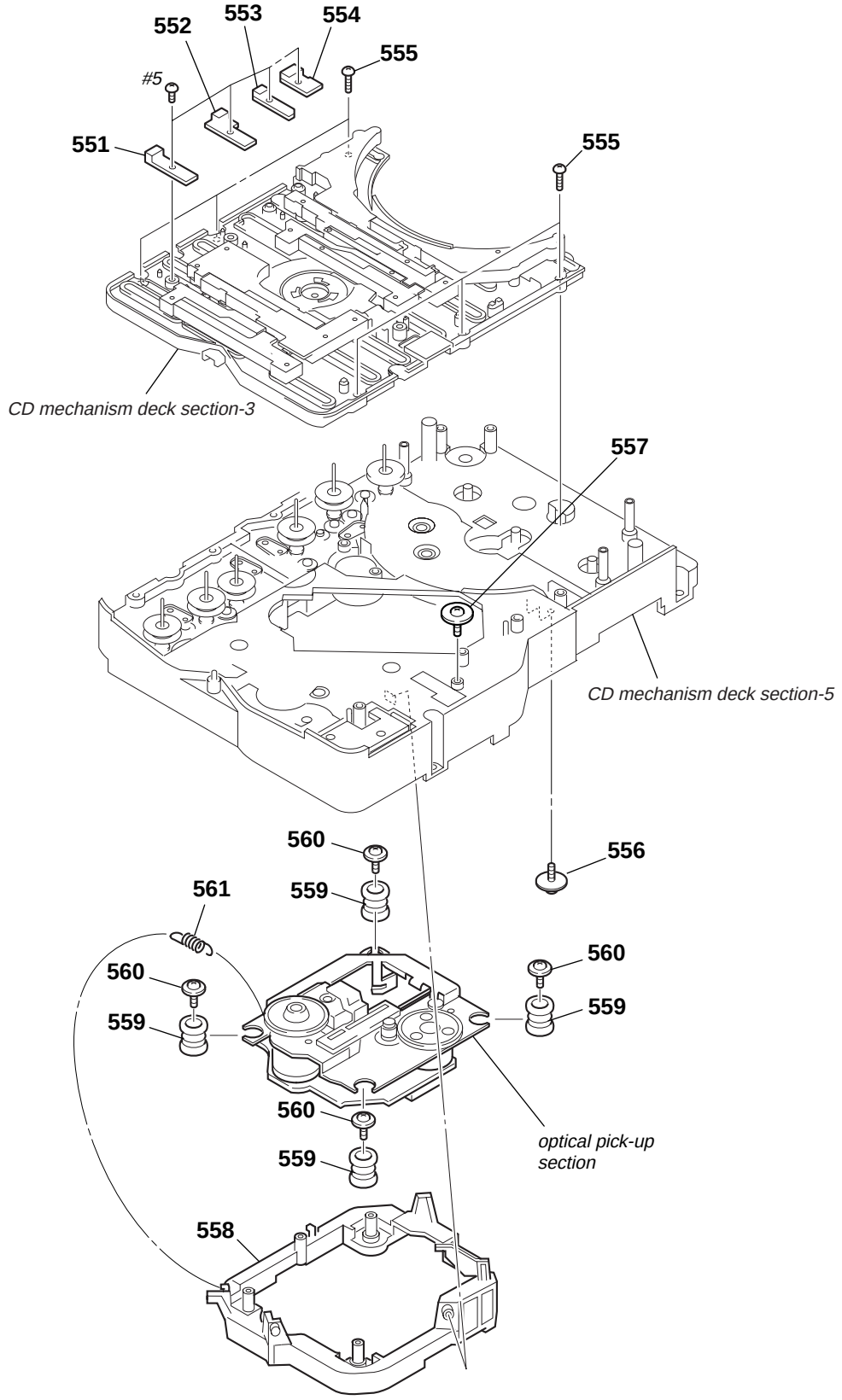
Ref. No.	Part No.	Description	Remark
301	A-4733-391-A	ACDC BOARD, COMPLETE (US)	
301	A-4733-418-A	ACDC BOARD, COMPLETE (E51)	
301	A-4733-430-A	ACDC BOARD, COMPLETE (MX)	
301	A-4733-432-A	ACDC BOARD, COMPLETE (AEP, UK)	
* 302	3-703-244-00	BUSHING (2104), CORD (US, AEP, UK, E51)	
302	3-703-571-11	BUSHING (S) (4516), CORD (MX)	
⚠303	1-777-071-83	CORD, POWER (AEP, UK, E51)	
⚠303	1-783-532-11	CORD, POWER (US)	
⚠303	1-827-226-11	CORD, POWER (MX)	
304	A-4733-393-A	AMP BOARD, COMPLETE (US)	
304	A-4733-415-A	AMP BOARD, COMPLETE (E51, MX)	
304	A-4733-434-A	AMP BOARD, COMPLETE (AEP, UK)	
305	4-242-530-01	QT2+3-8 W/O SLOT	
306	4-242-091-01	CUSHION	
⚠F001	1-533-453-12	FUSE, GLASS TUBE (DIA. 5) (5A/125V) (US)	
⚠F001	1-533-472-11	FUSE, GLASS TUBE (DIA. 5) (5A/250V) (E51, MX)	
Q531	6-550-291-01	TRANSISTOR FN1016 (AEP, UK)	
Q531	6-550-320-01	TRANSISTOR 2SD2562 (E51, MX)	
Q531	8-729-020-52	TRANSISTOR 2SD2439-OPY (US)	
Q532	6-550-291-01	TRANSISTOR FN1016 (AEP, UK)	
Q532	6-550-320-01	TRANSISTOR 2SD2562 (E51, MX)	
Q532	8-729-020-52	TRANSISTOR 2SD2439-OPY (US)	
Q533	6-550-292-01	TRANSISTOR FP1016 (AEP, UK)	
Q533	6-550-319-01	TRANSISTOR 2SB1649 (E51, MX)	
Q533	8-729-020-48	TRANSISTOR 2SB1588-OPY (US)	
Q534	6-550-292-01	TRANSISTOR FP1016 (AEP, UK)	
Q534	6-550-319-01	TRANSISTOR 2SB1649 (E51, MX)	
Q534	8-729-020-48	TRANSISTOR 2SB1588-OPY (US)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
#2	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

9-8. CD MECHANISM DECK SECTION-1 (CDM69BV-30CBD64NS)



Ref. No.	Part No.	Description	Remark
501	1-686-725-12	STOCKER MOTOR BOARD	
502	4-951-620-01	SCREW (2.6X8), +BVTP	
503	4-239-690-01	CAM (STOCKER U/D)	
504	4-239-618-01	SCREW (+PWH,2X6), STEP TAPPING	
506	4-239-687-01	GEAR (STOCKER COMMUNICATION)	
507	A-4731-113-A	CONNECTOR BOARD, COMPLETE	
508	4-239-689-01	GEAR (STOCKER DECELERATION)	
509	4-239-683-01	PULLEY (MODE DECELERATION)	
510	4-221-273-01	BELT (MODE)	
513	4-244-764-01	CAM (STOCKER V)	
M761	A-4735-953-A	MOTOR ASSY (STOCKER)	
S702	1-477-299-11	ENCODER, ROTARY (STOCKER POSITION)	
#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

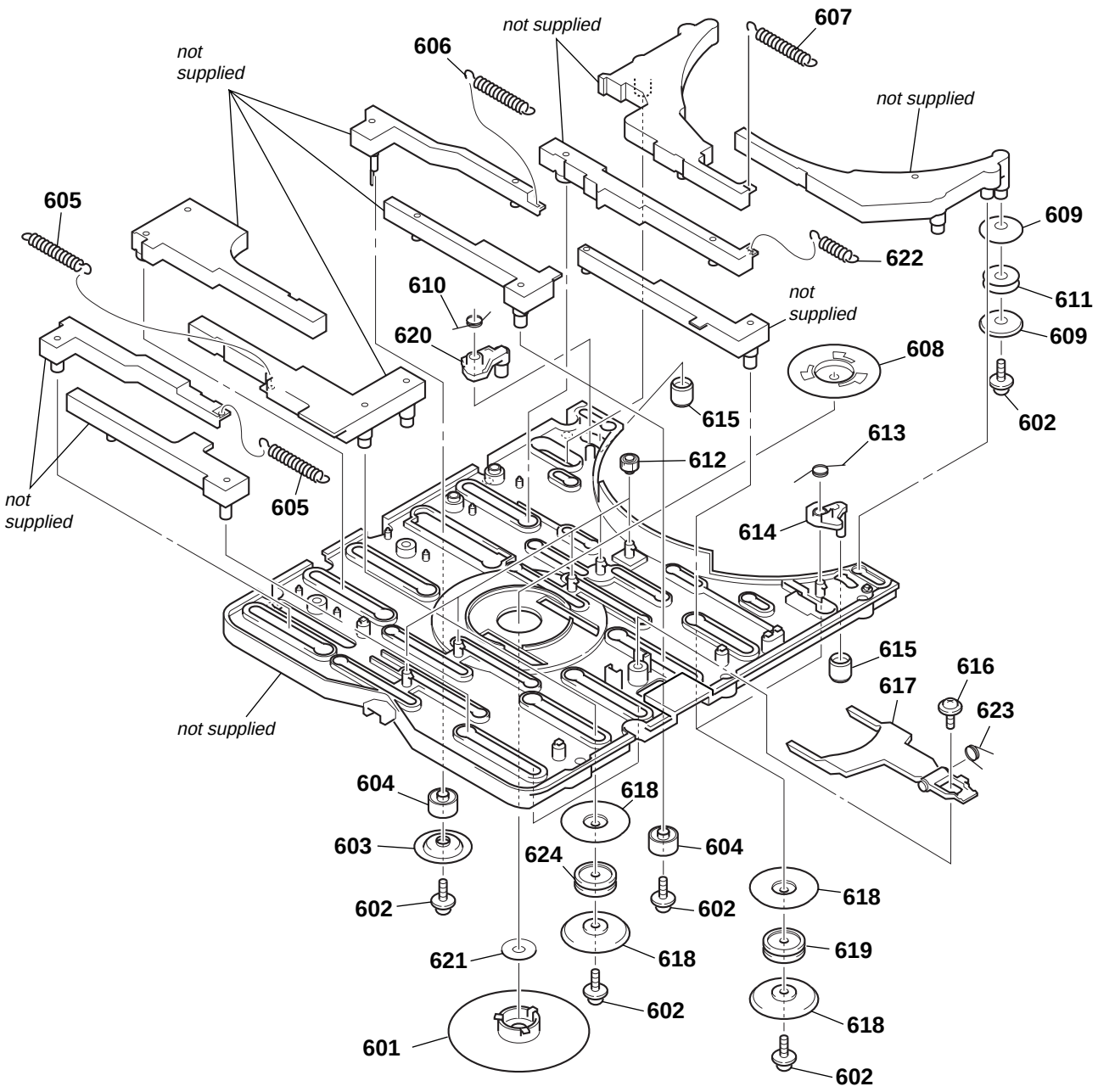
9-9. CD MECHANISM DECK SECTION-2 (CDM69BV-30CBD64NS)



Ref. No.	Part No.	Description	Remark
551	1-686-727-12	SW (1) BOARD	
552	1-686-728-12	SW (2) BOARD	
553	1-686-729-12	SW (3) BOARD	
554	1-686-730-12	SW (4) BOARD	
555	4-951-620-01	SCREW (2.6X8), +BVTP	
556	4-985-672-01	SCREW (+PTPWHM 2.6), FLOATING	

Ref. No.	Part No.	Description	Remark
557	4-227-899-01	SCREW (DIA,12), FLOATING	
558	4-243-716-01	HOLDER (BU-30)	
559	4-234-824-01	RUBBER, VIBRATION PROOF	
560	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
261	4-244-960-02	SPRING (BU30-1), TENSION	
#5	7-685-533-14	SCREW +BTP 2.6X6 TYPE2 N-S	

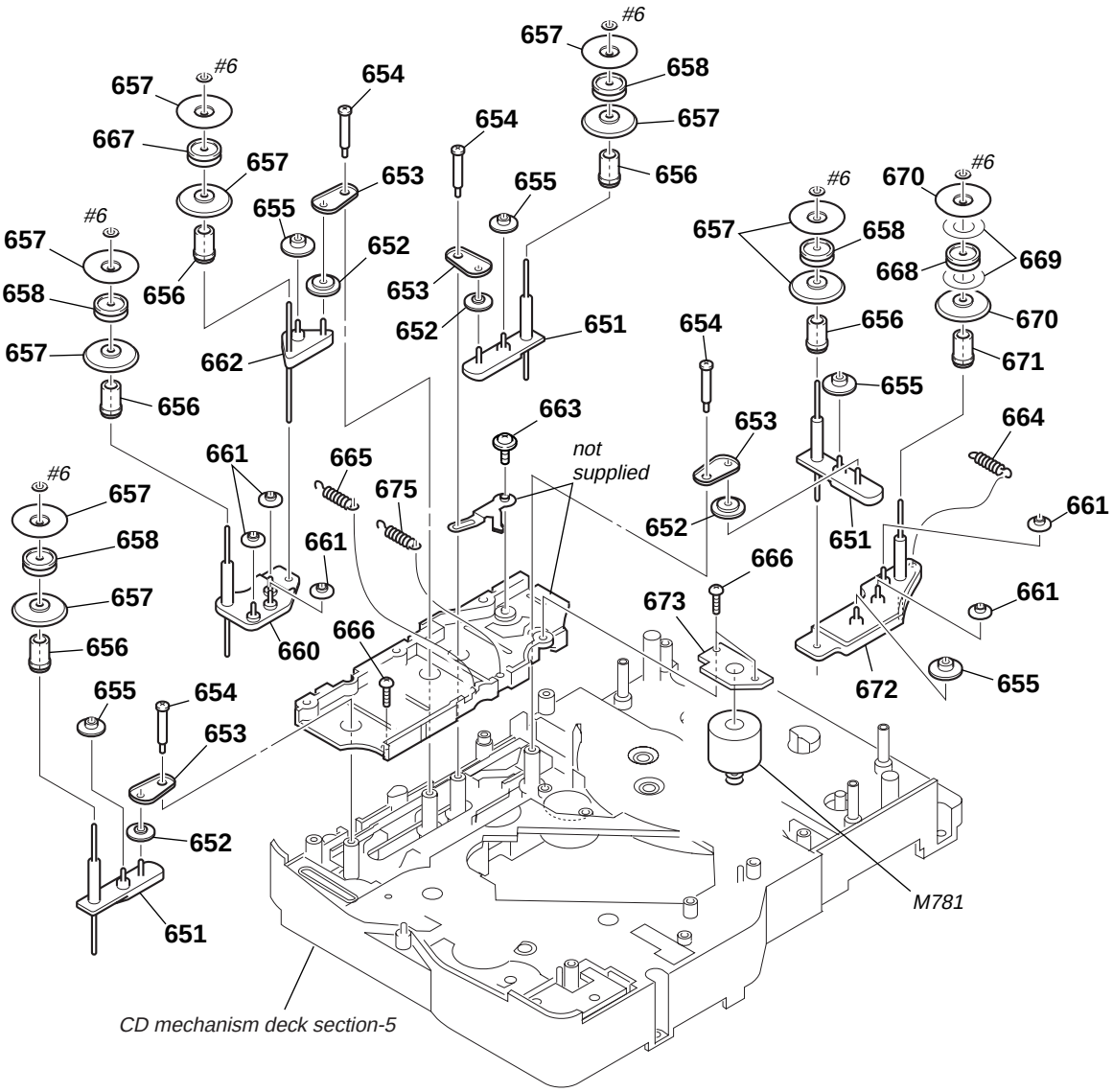
9-10. CD MECHANISM DECK SECTION-3 (CDM69BV-30CBD64NS)



Ref. No.	Part No.	Description	Remark
601	X-4955-447-1	PULLEY (A)(BU30) ASSY,CHUCKING	
602	4-992-069-01	SCREW (+PTPWH) (M2) (DIA. 7)	
603	4-239-648-01	PARASOL (ROLLER)	
604	4-239-646-01	ROLLER (ROLLER)	
605	4-239-641-01	SPRING (1.2), TENSION	
606	4-239-642-01	SPRING (3), TENSION COIL	
607	4-239-679-01	SPRING (5), TENSION COIL	
608	4-243-714-01	PULLEY (B) (BU30), CHUCKING	
609	4-239-649-01	PARASOL (STOCKER)	
610	4-240-040-01	SPRING (DISC STOPPER), TORSION	
611	4-244-035-01	ROLLER (STOCKER), RUBBER	
612	4-239-640-01	PINION (SLIDER)	

Ref. No.	Part No.	Description	Remark
613	4-243-291-01	SPRING, TORSION	
614	4-240-039-01	LEVER (DISC STOPPER)	
615	4-239-702-01	ROLLER (DISC STOPPER)	
616	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
617	4-243-713-01	LEVER (LIFTER)	
618	4-239-647-01	PARASOL (MAIN)	
619	4-243-916-01	ROLLER (S), RUBBER	
620	4-241-599-01	LEVER (SUPPORT)	
621	4-228-414-01	BRACKET (YOKE)	
622	4-239-643-01	SPRING (4), TENSION COIL	
623	4-243-914-01	SPRING (LIFTER), TORSION	
624	4-244-032-01	ROLLER, RUBBER	

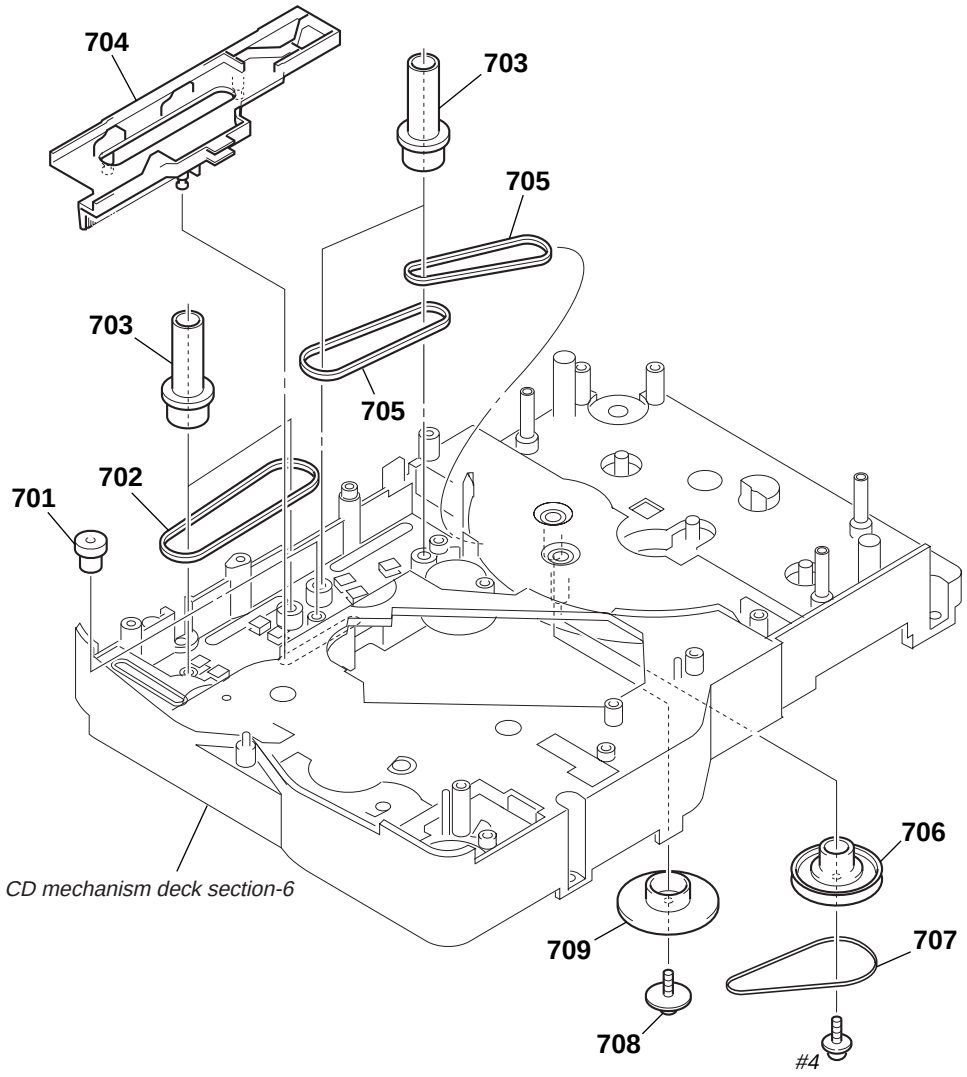
9-11. CD MECHANISM DECK SECTION-4 (CDM69BV-30CBD64NS)



Ref. No.	Part No.	Description	Remark
651	X-4954-626-1	LEVER (ROLLER) ASSY	
652	4-239-666-01	GEAR	
653	4-239-668-01	LEVER (CENTER)	
654	4-239-652-01	SCREW (ROLLER), STEP	
655	4-239-669-01	GEAR (ROLLER COMMUNICATION)	
656	4-239-667-01	GEAR (ROLLER CENTER)	
657	4-239-647-01	PARASOL (MAIN)	
658	4-244-032-01	ROLLER, RUBBER	
660	X-4954-622-1	BASE (SLIDER 2) ASSY	
661	4-239-670-01	GEAR (ROLLER 5 COMMUNICATION)	
662	X-4954-624-A	LEVER (SLIDER 4) ASSY	
663	4-992-069-01	SCREW (+PTPWH)(M2)(DIA. 7)	
664	4-240-981-01	SPRING (BASE SLIDER 5),TENSION	

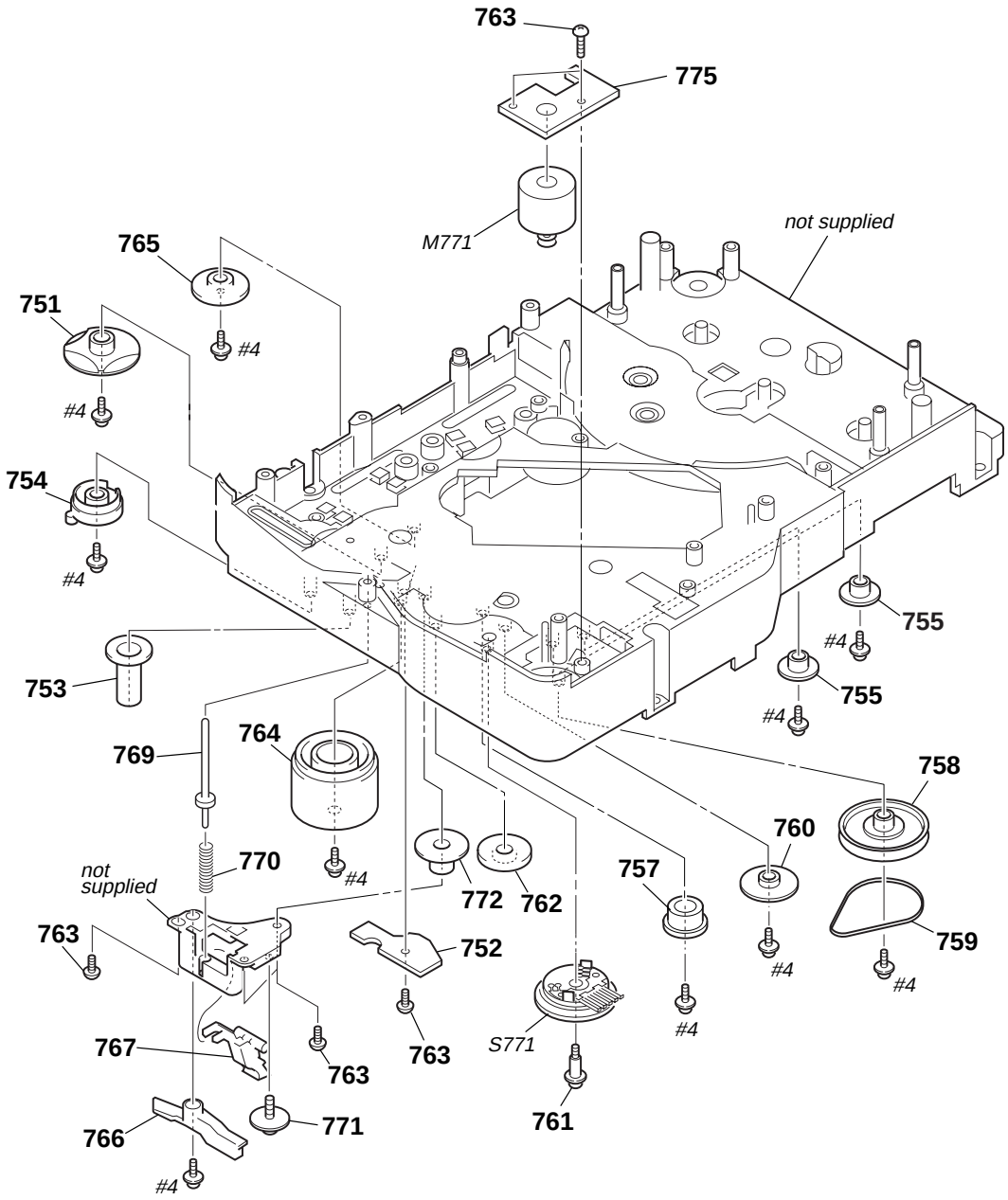
Ref. No.	Part No.	Description	Remark
665	4-240-041-01	SPRING (SLIDER 2), TENSION	
666	4-951-620-01	SCREW (2.6X8), +BVTP	
667	4-243-916-01	ROLLER (S), RUBBER	
668	4-244-035-01	ROLLER (STOCKER), RUBBER	
669	4-241-209-01	SHEET, ADHESIVE	
670	4-239-649-01	PARASOL (STOCKER)	
671	4-239-671-01	GEAR (ROLLER 5 CENTER)	
672	X-4954-627-1	BASE (SLIDER 5) ASSY	
673	1-686-726-12	ROLLER MOTOR BOARD	
675	4-244-162-01	SPRING (SLIDER 4),TENSION	
M781	A-4735-953-A	MOTOR ASSY (ROLLER)	
#6	7-623-921-01	WASHER 1.7, NYLON	

9-12. CD MECHANISM DECK SECTION-5 (CDM69BV-30CBD64NS)



Ref. No.	Part No.	Description	Remark
701	4-240-020-01	GEAR (TIMING)	
702	4-239-708-02	BELT (FRONT), TIMING	
703	4-239-697-01	GEAR (CENTER)	
704	X-4955-157-1	SLIDER (MODE CAM V) ASSY	
705	4-239-706-02	BELT (REAR), TIMING	
706	4-239-699-01	PULLEY	
707	4-247-349-02	BELT (ROLLER V)	
708	4-227-899-01	SCREW (DIA. 12), FLOATING	
709	4-239-686-01	GEAR (ROLLER DECELERATION)	
#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

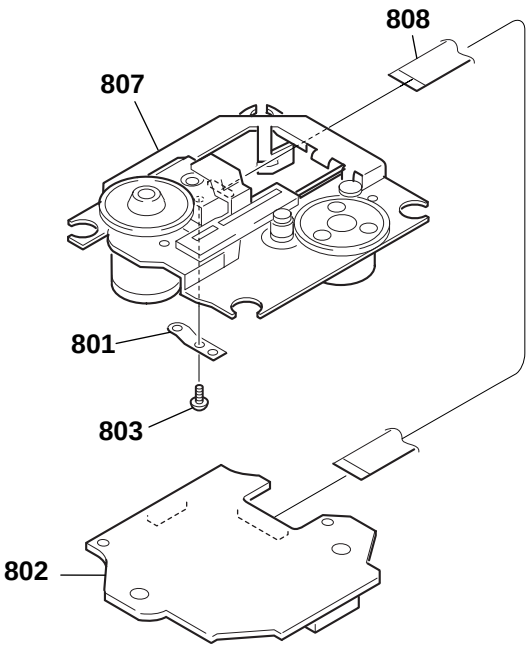
9-13. CD MECHANISM DECK SECTION-6 (CDM69BV-30CBD64NS)



Ref. No.	Part No.	Description	Remark
751	4-239-693-02	CAM (GEAR)	
752	1-686-723-12	SENSOR BOARD	
753	4-239-696-01	GEAR (EJECT LOCK)	
754	4-239-695-02	CAM (EJECT LOCK)	
755	4-240-019-01	GEAR (MODE 5)	
757	4-243-682-01	GEAR (MODE C)	
758	4-239-683-01	PULLEY (MODE DECELERATION)	
759	4-243-702-01	BELT (MODE V)	
760	4-243-683-01	GEAR (MODE D)	
761	4-239-618-01	SCREW (+PWH,2X6), STEP TAPPING	
762	4-243-681-01	GEAR (MODE B)	
763	4-951-620-01	SCREW (2.6X8), +BVTP	

Ref. No.	Part No.	Description	Remark
764	4-239-692-02	CAM (BU U/D)	
765	4-239-694-01	GEAR (MODE CAM)	
766	4-241-731-01	SHUTTER (A), LEVER	
767	4-241-732-01	SHUTTER (B), LEVER	
769	4-241-734-01	SHAFT (SHUTTER)	
770	4-241-735-01	SPRING (SHUTTER), COMPRESSION	
771	4-685-672-01	SCREW (DIA. 12), FLOATING	
772	4-243-680-01	GEAR (MODE A)	
775	1-686-724-12	MODE MOTOR BOARD	
M771	A-4735-953-A	MOTOR ASSY (MODE)	
S771	1-477-300-11	ENCODER, ROTARY (MODE)	
#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

9-14. OPTICAL PICK-UP SECTION (BU-30CBD64NS)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
801	4-236-304-02	SPRING (SLED), LEAF	
802	A-4731-674-A	BD BOARD, COMPLETE	
803	3-372-761-01	SCREW (M1.7), TAPING	
⚠807	A-4735-189-A	BU-30 (61) ASSY	
808	1-782-817-11	WIRE (FLAT TYPE)(16 CORE)	

SECTION 10
ELECTRICAL PARTS LIST

ACDC

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  E51 :Chilean and Peruvian models
  MX : Mexiccan model
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. . uPA. . : μPA. .
  uPB. . : μPB. . uPC. . : μPC. .
  uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-4733-391-A	ACDC BOARD, COMPLETE (US)			
	A-4733-418-A	ACDC BOARD, COMPLETE (E51)			
	A-4733-430-A	ACDC BOARD, COMPLETE (MX)			
	A-4733-432-A	ACDC BOARD, COMPLETE (AEP. UK)			
		**********			
*	1-533-213-31	FUSE HOLDER (MX)			
	1-533-217-31	FUSE HOLDER (US, E51)			
		< CAPACITOR >			
C001	1-130-777-00	MYLAR	0.1uF	5% 100V	(US, E51, MX)
C002	1-130-777-00	MYLAR	0.1uF	5% 100V	(US, E51, MX)
C003	1-130-777-00	MYLAR	0.1uF	5% 100V	
C004	1-130-777-00	MYLAR	0.1uF	5% 100V	
C007	1-130-777-00	MYLAR	0.1uF	5% 100V	
C008	1-130-777-00	MYLAR	0.1uF	5% 100V	
C010	1-126-943-11	ELECT	2200uF	20% 25V	(US, E51, MX)
C011	1-119-940-51	ELECT	4700uF	20% 50V	(E51, MX)
C011	1-126-955-11	ELECT	4700uF	20% 35V	(US, AEP, UK)
C012	1-119-940-51	ELECT	4700uF	20% 50V	(E51, MX)
C012	1-126-955-11	ELECT	4700uF	20% 35V	(US, AEP, UK)
C015	1-127-814-11	ELECT	3300uF	20% 80V	(E51, MX)
C015	1-135-516-11	ELECT	3300uF	20% 63V	(AEP, UK)
C015	1-135-517-11	ELECT	3300uF	20% 71V	(US)
C016	1-127-814-11	ELECT	3300uF	20% 80V	(E51, MX)
C016	1-135-516-11	ELECT	3300uF	20% 63V	(AEP, UK)
C016	1-135-517-11	ELECT	3300uF	20% 71V	(US)
C029	1-126-941-11	ELECT	470uF	20% 25V	
C120	1-162-968-11	CERAMIC CHIP	0.0047uF	10% 50V	
C121	1-126-964-11	ELECT	10uF	20% 50V	
C122	1-126-963-11	ELECT	4.7uF	20% 50V	
C123	1-126-957-11	ELECT	0.22uF	20% 50V	
C124	1-126-947-11	ELECT	47uF	20% 25V	

Ref. No.	Part No.	Description	Remark
		< TERMINAL >	
CLP007	1-537-933-31	TERMINAL	
		< CONNECTOR >	
* CN003	1-564-516-11	PLUG, CONNECTOR 13P	
CN006	1-564-507-11	PLUG, CONNECTOR 4P	
CN011	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
		< DIODE >	
D002	8-719-500-56	DIODE D3SBA20 (US, AEP, UK)	
D002	8-719-510-68	DIODE D5SBA204101 (E51, MX)	
D004	8-719-510-68	DIODE D5SBA204101 (US, AEP, UK)	
D004	6-500-360-01	DIODE D10XB20 (E51, MX)	
D005	8-719-801-78	DIODE 1SS184-TE85L	
D006	8-719-820-05	DIODE 1SS181-TE85L	
D007	8-719-048-61	DIODE EGP20DL-6349 (US, E51, MX)	
D008	8-719-048-61	DIODE EGP20DL-6349 (US, E51, MX)	
D009	8-719-048-61	DIODE EGP20DL-6349 (US, E51, MX)	
D010	8-719-048-61	DIODE EGP20DL-6349 (US, E51, MX)	
D023	8-719-988-61	DIODE 1SS355TE-17	
D111	8-719-988-61	DIODE 1SS355TE-17	
D112	8-719-820-05	DIODE 1SS181-TE85L	
D113	8-719-801-78	DIODE 1SS184-TE85L	
D114	8-719-801-78	DIODE 1SS184-TE85L	
D115	8-719-820-05	DIODE 1SS181-TE85L	
D116	8-719-801-78	DIODE 1SS184-TE85L	
D117	8-719-820-05	DIODE 1SS181-TE85L	
D118	8-719-988-61	DIODE 1SS355TE-17	
D139	8-719-801-78	DIODE 1SS184-TE85L	
D140	8-719-820-05	DIODE 1SS181-TE85L	
		< GROUND TERMINAL >	
* EP001	1-537-738-21	TERMINAL, EARTH	
		< TRANSFORMER >	
⚠PT005	1-439-736-11	TRANSFORMER, POWER (E51)	
⚠PT006	1-439-734-11	TRANSFORMER, POWER (US)	
⚠PT006	1-439-944-11	TRANSFORMER, POWER (MX)	
⚠PT006	1-439-735-11	TRANSFORMER, POWER (AEP. UK)	
		< TRANSISTOR >	
Q101	8-729-120-28	TRANSISTOR 2SC3052F-T1-LF	

ACDC AMP

Ref. No.	Part No.	Description			Remark
Q102	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q103	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q104	6-550-580-01	TRANSISTOR	2SA1235TP-1F		
Q105	6-550-580-01	TRANSISTOR	2SA1235TP-1F		
Q106	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q107	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q108	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q109	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
		< RESISTOR >			
⚠R001	1-202-723-00	SOLID	2.2M	20%	1/2W F (US)
R101	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W
R103	1-216-809-11	METAL CHIP	100	5%	1/10W
R104	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R106	1-216-842-11	METAL CHIP	56K	5%	1/10W
R107	1-216-842-11	METAL CHIP	56K	5%	1/10W
R108	1-216-842-11	METAL CHIP	56K	5%	1/10W
R109	1-216-842-11	METAL CHIP	56K	5%	1/10W
R110	1-216-821-11	METAL CHIP	1K	5%	1/10W
R111	1-216-821-11	METAL CHIP	1K	5%	1/10W
R112	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R113	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R114	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R115	1-216-834-11	METAL CHIP	12K	5%	1/10W
R116	1-216-821-11	METAL CHIP	1K	5%	1/10W
R117	1-216-821-11	METAL CHIP	1K	5%	1/10W
R118	1-216-809-11	METAL CHIP	100	5%	1/10W
R119	1-216-835-11	METAL CHIP	15K	5%	1/10W
R120	1-216-833-11	METAL CHIP	10K	5%	1/10W
R121	1-216-835-11	METAL CHIP	15K	5%	1/10W
R122	1-216-839-11	METAL CHIP	33K	5%	1/10W
R123	1-216-839-11	METAL CHIP	33K	5%	1/10W
R128	1-216-198-00	RES-CHIP	1K	5%	1/8W
R130	1-216-836-11	METAL CHIP	18K	5%	1/10W
R131	1-216-836-11	METAL CHIP	18K	5%	1/10W
R132	1-216-840-11	METAL CHIP	39K	5%	1/10W (EXCEPT US)
R132	1-216-841-11	METAL CHIP	47K	5%	1/10W (US)
R133	1-216-833-11	METAL CHIP	10K	5%	1/10W
R134	1-216-844-11	METAL CHIP	82K	5%	1/10W
R135	1-216-840-11	METAL CHIP	39K	5%	1/10W (EXCEPT US)
R135	1-216-841-11	METAL CHIP	47K	5%	1/10W (US)
R136	1-216-833-11	METAL CHIP	10K	5%	1/10W
R137	1-216-844-11	METAL CHIP	82K	5%	1/10W
R138	1-216-833-11	METAL CHIP	10K	5%	1/10W
R139	1-216-845-11	METAL CHIP	100K	5%	1/10W
R140	1-216-833-11	METAL CHIP	10K	5%	1/10W
R147	1-216-236-11	RES-CHIP	39K	5%	1/8W
R148	1-216-236-11	RES-CHIP	39K	5%	1/8W
R156	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R157	1-216-826-11	METAL CHIP	2.7K	5%	1/10W (E51, MX)
R157	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (US)
R157	1-216-828-11	METAL CHIP	3.9K	5%	1/10W (AEP, UK)
		< RELAY >			
⚠RY001	1-755-276-11	RELAY, POWER (EXCEPT E51)			
⚠RY502	1-755-496-11	RELAY (E51)			
		< SWITCH >			
⚠S001	1-786-408-11	SW, SL 1-2-3 SWS2301 (VOLTAGE SELECTOR) (E51)			
**********					
	A-4733-393-A	AMP BOARD, COMPLETE (US)			
	A-4733-415-A	AMP BOARD, COMPLETE (E51, MX)			
	A-4733-434-A	AMP BOARD, COMPLETE (AEP. UK)			
		**********			
		< CAPACITOR >			
C001	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C002	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C003	1-126-947-11	ELECT	47uF	20%	25V
C004	1-126-965-11	ELECT	22uF	20%	50V
C005	1-126-965-11	ELECT	22uF	20%	50V
C007	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C008	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C009	1-126-947-11	ELECT	47uF	20%	25V
C025	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C026	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C301	1-126-960-11	ELECT	1uF	20%	50V
C302	1-126-947-11	ELECT	47uF	20%	25V
C303	1-126-947-11	ELECT	47uF	20%	25V
C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C502	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C505	1-164-162-11	CERAMIC CHIP	100PF	5%	100V
C506	1-164-162-11	CERAMIC CHIP	100PF	5%	100V
C507	1-164-162-11	CERAMIC CHIP	100PF	5%	100V
C508	1-164-162-11	CERAMIC CHIP	100PF	5%	100V
C509	1-164-733-11	CERAMIC CHIP	820PF	10%	50V
C510	1-164-733-11	CERAMIC CHIP	820PF	10%	50V
C511	1-126-966-11	ELECT	33uF	20%	50V
C512	1-126-966-11	ELECT	33uF	20%	50V
C513	1-126-965-11	ELECT	22uF	20%	50V
C514	1-126-965-11	ELECT	22uF	20%	50V
C517	1-126-959-11	ELECT	0.47uF	20%	50V
C518	1-126-959-11	ELECT	0.47uF	20%	50V
C519	1-115-414-11	CERAMIC CHIP	820PF	5%	25V
C520	1-115-414-11	CERAMIC CHIP	820PF	5%	25V
C521	1-126-963-11	ELECT	4.7uF	20%	50V
C522	1-126-963-11	ELECT	4.7uF	20%	50V
C523	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C524	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C528	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C536	1-126-956-91	ELECT	0.1uF	20%	50V
C537	1-126-956-91	ELECT	0.1uF	20%	50V
C575	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C630	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C631	1-162-961-11	CERAMIC CHIP	330PF	10%	50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
C633	1-126-947-11	ELECT	47uF	20%	35V
C634	1-128-552-51	ELECT	47uF	20%	63V
C635	1-163-833-00	CERAMIC CHIP	0.068uF		25V
C636	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C637	1-128-552-51	ELECT	47uF	20%	63V
C638	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C640	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C641	1-126-947-11	ELECT	47uF	20%	35V
C642	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C643	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C645	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
		< CONNECTOR >			
* CN303	1-564-518-11	PLUG, CONNECTOR 3P			
CN502	1-568-830-11	CONNECTOR, FFC 11P			
		< DIODE >			
D002	8-719-988-61	DIODE	1SS355TE-17		
D020	8-719-801-78	DIODE	1SS184-TE85L		
D301	8-719-801-78	DIODE	1SS184-TE85L		
D501	8-719-820-05	DIODE	1SS181-TE85L		
D502	8-719-820-05	DIODE	1SS181-TE85L		
D503	8-719-801-78	DIODE	1SS184-TE85L		
D504	8-719-801-78	DIODE	1SS184-TE85L		
D505	8-719-046-74	DIODE	AU-01Z-WS		
D506	8-719-046-74	DIODE	AU-01Z-WS		
D507	8-719-988-61	DIODE	1SS355TE-17		
D508	8-719-988-61	DIODE	1SS355TE-17		
D509	8-719-801-78	DIODE	1SS184-TE85L		
D510	8-719-820-05	DIODE	1SS181-TE85L		
D511	8-719-988-61	DIODE	1SS355TE-17		
D618	8-719-801-78	DIODE	1SS184-TE85L		
D619	8-719-820-05	DIODE	1SS181-TE85L		
D623	8-719-988-61	DIODE	1SS355TE-17		
D624	8-719-988-61	DIODE	1SS355TE-17		
D625	8-719-060-80	DIODE	MA8180-L-TX		
D626	8-719-312-08	DIODE	FMB-G16L		
D627	8-719-312-08	DIODE	FMB-G16L		
D629	8-719-988-61	DIODE	1SS355TE-17		
D630	8-719-083-83	DIODE	UDZS-TE17-15B		
D631	8-719-988-61	DIODE	1SS355TE-17		
D632	8-719-988-61	DIODE	1SS355TE-17		
D633	8-719-988-61	DIODE	1SS355TE-17		
D634	8-719-988-61	DIODE	1SS355TE-17		
D635	8-719-988-61	DIODE	1SS355TE-17		
D636	8-719-988-61	DIODE	1SS355TE-17		
D637	8-719-988-61	DIODE	1SS355TE-17		
D638	8-719-988-61	DIODE	1SS355TE-17		
		< GROUND TERMINAL >			
* EP501	1-537-738-21	TERMINAL, EARTH			
* EP502	1-537-738-21	TERMINAL, EARTH			
		< IC >			
IC001	8-759-071-48	IC	TA7807S		
IC003	8-759-231-58	IC	TA7812S		

Ref. No.	Part No.	Description			Remark
		< SHORT >			
JR511	1-216-296-00	SHORT CHIP	0		
JR512	1-216-296-00	SHORT CHIP	0		
JR513	1-216-864-11	SHORT CHIP	0		
JR514	1-216-864-11	SHORT CHIP	0		
JR515	1-216-864-11	SHORT CHIP	0		
JR517	1-216-864-11	SHORT CHIP	0		
JR1113	1-216-864-11	SHORT CHIP	0 (US)		
JR1114	1-216-864-11	SHORT CHIP	0 (E51)		
JR1115	1-216-864-11	SHORT CHIP	0 (MX)		
JR1116	1-216-864-11	SHORT CHIP	0 (UK)		
JR1117	1-216-864-11	SHORT CHIP	0 (AEP)		
JR1130	1-216-864-11	SHORT CHIP	0 (AEP)		
		< TRANSISTOR >			
Q012	8-729-271-31	TRANSISTOR	2SC2713G-TE85L		
Q013	8-729-216-31	TRANSISTOR	2SA1163G-TE85L		
Q301	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q302	6-550-580-01	TRANSISTOR	2SA1235TP-1F		
Q303	8-729-201-53	TRANSISTOR	2SA1015TP-GR		
Q505	8-729-216-31	TRANSISTOR	2SA1163G-TE85L		
Q506	8-729-216-31	TRANSISTOR	2SA1163G-TE85L		
Q507	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q508	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q509	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q510	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q511	8-729-823-91	TRANSISTOR	2SC2910ST-TP		
Q512	8-729-823-91	TRANSISTOR	2SC2910ST-TP		
Q513	8-729-823-91	TRANSISTOR	2SC2910ST-TP		
Q514	8-729-823-91	TRANSISTOR	2SC2910ST-TP		
Q515	8-729-271-31	TRANSISTOR	2SC2713G-TE85L		
Q516	8-729-271-31	TRANSISTOR	2SC2713G-TE85L		
Q517	6-550-032-01	TRANSISTOR	HN4A06J-GRBL (TE85R)		
Q518	6-550-032-01	TRANSISTOR	HN4A06J-GRBL (TE85R)		
Q521	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q522	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q523	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q524	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q525	8-729-052-79	TRANSISTOR	2SD1306NETL		
Q526	8-729-052-79	TRANSISTOR	2SD1306NETL		
Q527	6-550-580-01	TRANSISTOR	2SA1235TP-1F		
Q530	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q610	8-729-216-31	TRANSISTOR	2SA1163G-TE85L		
Q611	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q617	6-550-580-01	TRANSISTOR	2SA1235TP-1F		
Q618	6-550-040-01	FET	2SK3053		
Q619	6-550-040-01	FET	2SK3053		
Q620	6-550-317-01	TRANSISTOR	2SD814A (RS)		
Q621	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q622	6-550-316-01	TRANSISTOR	2SB792A (RS)		
Q623	6-550-580-01	TRANSISTOR	2SA1235TP-1F		
Q624	6-550-580-01	TRANSISTOR	2SA1235TP-1F		
		< RESISTOR >			
R035	1-216-837-11	METAL CHIP	22K	5%	1/10W
R036	1-216-837-11	METAL CHIP	22K	5%	1/10W
R037	1-216-830-11	METAL CHIP	5.6K	5%	1/10W

AMP

Ref. No.	Part No.	Description			Remark
R065	1-216-073-00	RES-CHIP	10K	5%	1/10W
R066	1-216-085-00	RES-CHIP	33K	5%	1/10W
R067	1-216-089-11	RES-CHIP	47K	5%	1/10W
R068	1-216-833-11	METAL CHIP	10K	5%	1/10W
R090	1-216-073-00	RES-CHIP	10K	5%	1/10W
R301	1-216-841-11	METAL CHIP	47K	5%	1/10W
R302	1-216-853-11	METAL CHIP	470K	5%	1/10W
R303	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R304	1-216-813-11	METAL CHIP	220	5%	1/10W
R305	1-216-833-11	METAL CHIP	10K	5%	1/10W
R306	1-216-833-11	METAL CHIP	10K	5%	1/10W
R307	1-216-792-11	METAL CHIP	3.9	5%	1/10W
R311	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R312	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R501	1-220-890-11	METAL	0.22	10%	3W F (US, E51, MX)
⚠R502	1-220-890-11	METAL	0.22	10%	3W F (US, E51, MX)
⚠R503	1-220-890-11	METAL	0.22	10%	3W F (US, E51, MX)
⚠R504	1-220-890-11	METAL	0.22	10%	3W F (US, E51, MX)
R505	1-216-809-11	METAL CHIP	100	5%	1/10W
R506	1-216-809-11	METAL CHIP	100	5%	1/10W
R507	1-216-822-11	METAL CHIP	1.2K	5%	1/10W (US, E51, MX)
R507	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AEP, UK)
R508	1-216-822-11	METAL CHIP	1.2K	5%	1/10W (US, E51, MX)
R508	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AEP, UK)
R509	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R510	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R511	1-216-821-11	METAL CHIP	1K	5%	1/10W
R512	1-216-821-11	METAL CHIP	1K	5%	1/10W
R513	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R514	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R515	1-216-033-00	METAL CHIP	220	5%	1/10W
R516	1-216-033-00	METAL CHIP	220	5%	1/10W
R517	1-216-015-00	METAL CHIP	39	5%	1/10W
R518	1-216-015-00	METAL CHIP	39	5%	1/10W
R519	1-216-015-00	METAL CHIP	39	5%	1/10W
R520	1-216-015-00	METAL CHIP	39	5%	1/10W
R521	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R522	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R523	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R524	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R525	1-216-821-11	METAL CHIP	1K	5%	1/10W
R526	1-216-821-11	METAL CHIP	1K	5%	1/10W
R527	1-216-841-11	METAL CHIP	47K	5%	1/10W
R528	1-216-841-11	METAL CHIP	47K	5%	1/10W
R529	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R531	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R532	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R533	1-216-809-11	METAL CHIP	100	5%	1/10W
R534	1-216-809-11	METAL CHIP	100	5%	1/10W
R535	1-216-809-11	METAL CHIP	100	5%	1/10W
R536	1-216-809-11	METAL CHIP	100	5%	1/10W
R537	1-247-713-11	CARBON	1K	5%	1/2W (E51, MX)
R537	1-249-923-11	CARBON	1K	5%	1/4W (US, AEP, UK)
R538	1-247-713-11	CARBON	1K	5%	1/4W (E51, MX)
R538	1-249-923-11	CARBON	1K	5%	1/4W (US, AEP, UK)
R539	1-216-833-11	METAL CHIP	10K	5%	1/10W
R540	1-216-833-11	METAL CHIP	10K	5%	1/10W
R541	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R542	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R543	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R544	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R545	1-216-809-11	METAL CHIP	100	5%	1/10W
R546	1-216-809-11	METAL CHIP	100	5%	1/10W
R547	1-216-083-00	METAL CHIP	27K	5%	1/10W
R548	1-216-083-00	METAL CHIP	27K	5%	1/10W
R549	1-216-039-00	RES-CHIP	390	5%	1/10W (E51, MX)
R549	1-216-041-00	METAL CHIP	470	5%	1/10W (US)
R549	1-216-043-00	RES-CHIP	560	5%	1/10W (AEP, UK)
R550	1-216-039-00	RES-CHIP	390	5%	1/10W (E51, MX)
R550	1-216-041-00	METAL CHIP	470	5%	1/10W (US)
R550	1-216-043-00	RES-CHIP	560	5%	1/10W (AEP, UK)
R553	1-216-838-11	METAL CHIP	27K	5%	1/10W
R554	1-216-838-11	METAL CHIP	27K	5%	1/10W
R555	1-216-845-11	METAL CHIP	100K	5%	1/10W
R556	1-216-845-11	METAL CHIP	100K	5%	1/10W
R557	1-216-821-11	METAL CHIP	1K	5%	1/10W
R558	1-216-821-11	METAL CHIP	1K	5%	1/10W
R559	1-216-063-00	RES-CHIP	3.9K	5%	1/10W
R560	1-216-063-00	RES-CHIP	3.9K	5%	1/10W
R561	1-216-843-11	METAL CHIP	68K	5%	1/10W
R562	1-216-857-11	METAL CHIP	1M	5%	1/10W
R564	1-216-864-11	SHORT CHIP	0		
R574	1-216-009-00	RES-CHIP	22	5%	1/10W
R575	1-216-833-11	METAL CHIP	10K	5%	1/10W
R576	1-216-833-11	METAL CHIP	10K	5%	1/10W
R591	1-216-845-11	METAL CHIP	100K	5%	1/10W
R592	1-216-835-11	METAL CHIP	15K	5%	1/10W
⚠R595	1-220-755-11	METAL	0.22	10%	2W F (AEP, UK)
⚠R595	1-217-153-00	METAL	0.47	10%	2W F (E51, MX)
⚠R596	1-220-755-11	METAL	0.22	10%	2W F (AEP, UK)
⚠R596	1-217-153-00	METAL	0.47	10%	2W F (E51, MX)
⚠R597	1-220-755-11	METAL	0.22	10%	2W F (AEP, UK)
⚠R597	1-217-153-00	METAL	0.47	10%	2W F (E51, MX)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

AMP **BD**

Ref. No.	Part No.	Description			Remark
⚠R598	1-220-755-11	METAL	0.22	10%	2W F (AEP, UK)
⚠R598	1-217-153-00	METAL	0.47	10%	2W F (E51, MX)
R626	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R627	1-216-833-11	METAL CHIP	10K	5%	1/10W
R641	1-216-081-00	METAL CHIP	22K	5%	1/10W
R642	1-216-055-00	METAL CHIP	1.8K	5%	1/10W (E51, MX)
R642	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (US, AEP, UK)
R643	1-216-055-00	METAL CHIP	1.8K	5%	1/10W (E51, MX)
R643	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (US, AEP, UK)
R645	1-216-841-11	METAL CHIP	47K	5%	1/10W
R646	1-216-841-11	METAL CHIP	47K	5%	1/10W
R647	1-216-837-11	METAL CHIP	22K	5%	1/10W
R648	1-216-849-11	METAL CHIP	220K	5%	1/10W
R649	1-216-849-11	METAL CHIP	220K	5%	1/10W
R650	1-216-833-11	METAL CHIP	10K	5%	1/10W
R651	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R652	1-216-841-11	METAL CHIP	47K	5%	1/10W
R653	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R654	1-216-835-11	METAL CHIP	15K	5%	1/10W
R655	1-249-419-11	CARBON	1.5K	5%	1/4W
R656	1-249-420-11	CARBON	1.8K	5%	1/4W
R658	1-216-186-00	RES-CHIP	330	5%	1/8W
R659	1-216-184-00	RES-CHIP	270	5%	1/8W
R660	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R661	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R662	1-216-833-11	METAL CHIP	10K	5%	1/10W
R663	1-216-833-11	METAL CHIP	10K	5%	1/10W
R664	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R669	1-216-833-11	METAL CHIP	10K	5%	1/10W
R670	1-216-835-11	METAL CHIP	15K	5%	1/10W
R671	1-216-833-11	METAL CHIP	10K	5%	1/10W
R672	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R674	1-216-238-91	RES-CHIP	47K	5%	1/8W
R675	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R676	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R677	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R678	1-216-234-00	RES-CHIP	33K	5%	1/8W
R679	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R681	1-259-583-11	CARBON	15K	5%	1/2W
R682	1-216-835-11	METAL CHIP	15K	5%	1/10W
R683	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R685	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R686	1-249-423-11	CARBON	3.3K	5%	1/4W
R691	1-216-176-11	RES-CHIP	120	5%	1/8W
R692	1-249-423-11	CARBON	3.3K	5%	1/4W
R693	1-249-423-11	CARBON	3.3K	5%	1/4W
R694	1-216-833-11	METAL CHIP	10K	5%	1/10W
R695	1-249-433-11	CARBON	22K	5%	1/4W
R696	1-216-226-00	RES-CHIP	15K	5%	1/8W
R697	1-216-053-00	METAL CHIP	1.5K	5%	1/10W (E51, MX)
R697	1-216-055-00	METAL CHIP	1.8K	5%	1/10W (US, AEP, UK)
R698	1-216-053-00	METAL CHIP	1.5K	5%	1/10W (E51, MX)
R698	1-216-055-00	METAL CHIP	1.8K	5%	1/10W (US, AEP, UK)
R699	1-249-423-11	CARBON	3.3K	5%	1/4W
		< RELAY >			
RY501	1-755-307-11	RELAY			
		< THERMISTOR >			
TH501	1-803-790-21	THERMISTOR			
TH502	1-803-790-21	THERMISTOR			
**********					
	A-4731-674-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR/SHORT >			
C101	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C102	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C103	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C104	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C107	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C108	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C109	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C111	1-126-607-11	ELECT CHIP	47uF	20%	4V
C112	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C113	1-128-995-21	ELECT CHIP	100uF	20%	10V
C114	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C115	1-128-995-21	ELECT CHIP	100uF	20%	10V
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C117	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C118	1-115-156-11	CERAMIC CHIP	1uF		10V
C119	1-115-156-11	CERAMIC CHIP	1uF		10V
C121	1-216-864-11	SHORT CHIP	0		
C122	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C131	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C132	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C133	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C150	1-128-394-11	ELECT CHIP	220uF	20%	10V
C151	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C152	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C153	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C169	1-128-394-11	ELECT CHIP	220uF	20%	10V
C202	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C203	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C205	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C208	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C209	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C211	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C212	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C213	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C215	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C216	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C222	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C224	1-115-156-11	CERAMIC CHIP	1uF		10V

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BD

Ref. No.	Part No.	Description			Remark
C226	1-126-607-11	ELECT CHIP	47uF	20%	4V
C227	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C229	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C230	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C231	1-100-588-21	ELECT CHIP	1000uF	20%	6.3V
C249	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C250	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C251	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C253	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C254	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C255	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C256	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C257	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C258	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C259	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C260	1-128-590-11	ELECT CHIP	100uF	20%	6.3V
C261	1-126-246-11	ELECT CHIP	220uF	20%	4V
C263	1-126-607-11	ELECT CHIP	47uF	20%	4V
C264	1-126-607-11	ELECT CHIP	47uF	20%	4V
C265	1-126-607-11	ELECT CHIP	47uF	20%	4V
C266	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C267	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C268	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C269	1-126-607-11	ELECT CHIP	47uF	20%	4V
C270	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C271	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C272	1-216-864-11	SHORT CHIP	0		
C273	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C274	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C292	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C310	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C313	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C314	1-115-156-11	CERAMIC CHIP	1uF		10V
C316	1-164-360-11	CERAMIC CHIP	0.1uF		16V
		< CONNECTOR >			
CN101	1-794-424-11	CONNECTOR, FCC/FPC 16P			
CN102	1-784-834-21	CONNECTOR, FFC (LIF (NON-ZIF)) 23P			
CN104	1-784-863-21	CONNECTOR, FFC (LIF (NON-ZIF)) 11P			
		< SHORT/FERRITE BEAD >			
FB102	1-216-864-11	SHORT CHIP	0		
FB103	1-216-864-11	SHORT CHIP	0		
FB104	1-216-864-11	SHORT CHIP	0		
* FB161	1-469-670-21	FERRITE	0uH		
FB201	1-216-295-00	SHORT CHIP	0		
FB203	1-216-864-11	SHORT CHIP	0		
FB204	1-216-295-00	SHORT CHIP	0		
FB291	1-216-864-11	SHORT CHIP	0		
FB351	1-216-864-11	SHORT CHIP	0		
		< IC >			
IC101	8-752-408-73	IC CXD3068Q			
IC102	8-759-713-70	IC AN41020A			
IC103	8-752-106-21	IC CXA2647N-T4			
IC104	6-701-810-01	IC TC94A20F-CX4			
IC121	6-700-394-01	IC BA25BC0FP-E2			

Ref. No.	Part No.	Description			Remark
		< SHORT >			
JR1	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L101	1-412-032-11	INDUCTOR CHIP	100uH		
L163	1-216-864-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q101	8-729-046-90	TRANSISTOR	2SB970-(TX).S0		
		< RESISTOR/CAPACITOR >			
R101	1-216-864-11	SHORT CHIP	0		
R102	1-216-835-11	METAL CHIP	15K	5%	1/10W
R103	1-216-845-11	METAL CHIP	100K	5%	1/10W
R104	1-216-835-11	METAL CHIP	15K	5%	1/10W
R105	1-216-821-11	METAL CHIP	1K	5%	1/10W
R111	1-216-847-11	METAL CHIP	150K	5%	1/10W
R113	1-218-701-11	METAL CHIP	2.4K	5%	1/10W
R114	1-216-852-11	METAL CHIP	390K	5%	1/10W
R115	1-216-839-11	METAL CHIP	33K	5%	1/10W
R116	1-216-839-11	METAL CHIP	33K	5%	1/10W
R117	1-216-846-11	METAL CHIP	120K	5%	1/10W
R118	1-216-833-11	METAL CHIP	10K	5%	1/10W
R120	1-216-846-11	METAL CHIP	120K	5%	1/10W
R122	1-216-845-11	METAL CHIP	100K	5%	1/10W
R123	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R125	1-216-840-11	METAL CHIP	39K	5%	1/10W
R126	1-216-840-11	METAL CHIP	39K	5%	1/10W
R131	1-216-843-11	METAL CHIP	68K	5%	1/10W
R132	1-216-851-11	METAL CHIP	330K	5%	1/10W
R133	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R151	1-216-845-11	METAL CHIP	100K	5%	1/10W
R152	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R155	1-216-864-11	SHORT CHIP	0		
R162	1-216-833-11	METAL CHIP	10K	5%	1/10W
R163	1-216-833-11	METAL CHIP	10K	5%	1/10W
R166	1-216-821-11	METAL CHIP	1K	5%	1/10W
R167	1-216-864-11	SHORT CHIP	0		
R168	1-216-821-11	METAL CHIP	1K	5%	1/10W
R169	1-216-864-11	SHORT CHIP	0		
R199	1-216-864-11	SHORT CHIP	0		
R201	1-216-839-11	METAL CHIP	33K	5%	1/10W
R202	1-216-833-11	METAL CHIP	10K	5%	1/10W
R203	1-216-845-11	METAL CHIP	100K	5%	1/10W
R204	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R205	1-216-821-11	METAL CHIP	1K	5%	1/10W
R206	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R207	1-216-857-11	METAL CHIP	1M	5%	1/10W
R216	1-216-857-11	METAL CHIP	1M	5%	1/10W
R218	1-216-821-11	METAL CHIP	1K	5%	1/10W
R219	1-216-821-11	METAL CHIP	1K	5%	1/10W
R220	1-216-821-11	METAL CHIP	1K	5%	1/10W
R221	1-216-809-11	METAL CHIP	100	5%	1/10W
R222	1-216-809-11	METAL CHIP	100	5%	1/10W
R223	1-216-809-11	METAL CHIP	100	5%	1/10W
R224	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R225	1-216-809-11	METAL CHIP	100	5%	1/10W
R226	1-216-809-11	METAL CHIP	100	5%	1/10W
R227	1-216-809-11	METAL CHIP	100	5%	1/10W
R230	1-216-811-11	METAL CHIP	150	5%	1/10W
R231	1-216-815-11	METAL CHIP	330	5%	1/10W
R232	1-216-815-11	METAL CHIP	330	5%	1/10W
R233	1-216-815-11	METAL CHIP	330	5%	1/10W
R249	1-216-818-11	METAL CHIP	560	5%	1/10W
R250	1-216-813-11	METAL CHIP	220	5%	1/10W
R251	1-216-813-11	METAL CHIP	220	5%	1/10W
R252	1-216-857-11	METAL CHIP	1M	5%	1/10W
R253	1-216-821-11	METAL CHIP	1K	5%	1/10W
R255	1-216-809-11	METAL CHIP	100	5%	1/10W
R257	1-216-809-11	METAL CHIP	100	5%	1/10W
R259	1-216-809-11	METAL CHIP	100	5%	1/10W
R260	1-216-821-11	METAL CHIP	1K	5%	1/10W
R261	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R265	1-216-813-11	METAL CHIP	220	5%	1/10W
R266	1-216-813-11	METAL CHIP	220	5%	1/10W
R271	1-216-833-11	METAL CHIP	10K	5%	1/10W
R272	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R275	1-216-833-11	METAL CHIP	10K	5%	1/10W
R276	1-216-809-11	METAL CHIP	100	5%	1/10W
R279	1-216-809-11	METAL CHIP	100	5%	1/10W
R284	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
R291	1-216-864-11	SHORT CHIP	0		
R303	1-216-864-11	SHORT CHIP	0		
R308	1-216-864-11	SHORT CHIP	0		
R309	1-216-864-11	SHORT CHIP	0		
R310	1-216-864-11	SHORT CHIP	0		
R311	1-216-864-11	SHORT CHIP	0		
R313	1-216-864-11	SHORT CHIP	0		
R314	1-216-864-11	SHORT CHIP	0		
R316	1-216-864-11	SHORT CHIP	0		
R318	1-216-864-11	SHORT CHIP	0		
R319	1-216-864-11	SHORT CHIP	0		
R321	1-216-864-11	SHORT CHIP	0		
R351	1-216-864-11	SHORT CHIP	0		
		< VARIABLE RESISTOR >			
RV101	1-223-997-21	RES, CARBON ADJ VAR 47K			
		< VIBRATOR >			
X201	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)			

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	A-4731-113-A	CONNECTOR BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C711	1-126-795-11	ELECT	10uF	20%	50V
C751	1-164-159-21	CERAMIC	0.1uF		50V
C752	1-164-159-21	CERAMIC	0.1uF		50V
C753	1-164-159-21	CERAMIC	0.1uF		50V
C754	1-164-159-21	CERAMIC	0.1uF		50V
C755	1-164-159-21	CERAMIC	0.1uF		50V
C756	1-164-159-21	CERAMIC	0.1uF		50V
C758	1-164-159-21	CERAMIC	0.1uF		50V
C761	1-162-306-11	CERAMIC	0.01uF	30%	16V
C762	1-164-159-21	CERAMIC	0.1uF		50V
C763	1-164-159-21	CERAMIC	0.1uF		50V
C764	1-164-159-21	CERAMIC	0.1uF		50V
C765	1-164-159-21	CERAMIC	0.1uF		50V
C766	1-164-159-21	CERAMIC	0.1uF		50V
C767	1-164-159-21	CERAMIC	0.1uF		50V
C768	1-164-159-21	CERAMIC	0.1uF		50V
C769	1-164-159-21	CERAMIC	0.1uF		50V
C771	1-162-306-11	CERAMIC	0.01uF	30%	16V
C781	1-162-306-11	CERAMIC	0.01uF	30%	16V
		< CONNECTOR >			
CN701	1-779-564-21	CONNECTOR, FFC (LIF (NON-ZIF)) 27P			
CN702	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P			
CN703	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE) 2P			
* CN710	1-506-486-11	PIN, CONNECTOR 7P			
		< DIODE >			
D701	8-719-921-40	DIODE MTZJ-T-77-4.7B			
D711	8-719-109-89	DIODE MTZJ-T-77-5.6B			
D721	8-719-982-03	DIODE MTZJ-T-77-3.6A			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			
IC711	8-759-598-69	IC BA6956AN			
IC721	8-759-598-69	IC BA6956AN			
		< TRANSISTOR >			
Q731	8-729-029-66	TRANSISTOR	RT1N141S-TP		
		< RESISTOR >			
R701	1-249-415-11	CARBON	680	5%	1/4W
R702	1-247-807-31	CARBON	100	5%	1/4W
R711	1-249-415-11	CARBON	680	5%	1/4W
R712	1-247-807-31	CARBON	100	5%	1/4W
R721	1-249-415-11	CARBON	680	5%	1/4W
R722	1-247-807-31	CARBON	100	5%	1/4W
R731	1-247-806-11	CARBON	91	5%	1/4W
R732	1-249-417-11	CARBON	1K	5%	1/4W
R733	1-249-429-11	CARBON	10K	5%	1/4W
R734	1-249-429-11	CARBON	10K	5%	1/4W

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	A-4733-420-A	DECK BOARD, COMPLETE (EXCEPT US)			
		**********			
		< CAPACITOR >			
C303	1-164-647-11	CERAMIC CHIP	0.0012uF	10%	50V
C304	1-164-647-11	CERAMIC CHIP	0.0012uF	10%	50V
C307	1-104-665-11	ELECT	100uF	20%	10V
C308	1-104-665-11	ELECT	100uF	20%	10V
C309	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C310	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C313	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C314	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C315	1-126-964-11	ELECT	220uF	20%	16V
C317	1-126-956-91	ELECT	0.1uF	20%	50V

DECK

Ref. No.	Part No.	Description			Remark
C318	1-126-956-91	ELECT	0.1uF	20%	50V
C325	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C326	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C327	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C360	1-126-964-11	ELECT	220uF	20%	16V
C399	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C401	1-126-956-91	ELECT	0.1uF	20%	50V
C402	1-126-956-91	ELECT	0.1uF	20%	50V
C403	1-162-926-11	CERAMIC CHIP	82PF	5%	50V
C404	1-162-926-11	CERAMIC CHIP	82PF	5%	50V
C405	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C406	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C407	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C408	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C409	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C410	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C411	1-126-964-11	ELECT	10uF	20%	50V
C412	1-126-964-11	ELECT	10uF	20%	50V
C413	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C452	1-128-551-11	ELECT	22uF	20%	25V
C453	1-164-650-91	CERAMIC CHIP	0.0027uF	10%	50V
C454	1-164-650-91	CERAMIC CHIP	0.0027uF	10%	50V
C455	1-164-650-91	CERAMIC CHIP	0.0027uF	10%	50V
C456	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C457	1-137-459-11	MYLAR	0.0056uF	5%	100V
C458	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C459	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C460	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C461	1-164-392-11	CERAMIC CHIP	390PF	5%	50V
C462	1-164-392-11	CERAMIC CHIP	390PF	5%	50V
		< CONNECTOR >			
CN008	1-568-830-11	CONNECTOR, FFC 11P			
* CN302	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
		< DIODE >			
D401	8-719-988-61	DIODE 1SS355TE-17			
		< GROUND TERMINAL >			
* EP301	1-537-738-21	TERMINAL, EARTH			
		< SHORT >			
FB301	1-216-864-11	SHORT CHIP	0		
		< IC >			
IC301	6-702-457-01	IC NJM14558M-TE2			
IC401	6-702-457-01	IC NJM14558M-TE2			
		< SHORT >			
JR302	1-216-295-00	SHORT CHIP	0		
JR303	1-216-864-11	SHORT CHIP	0		
JR304	1-216-864-11	SHORT CHIP	0		
JR318	1-216-864-11	SHORT CHIP	0		
JR319	1-216-864-11	SHORT CHIP	0		
JR320	1-216-864-11	SHORT CHIP	0		
JR321	1-216-296-00	SHORT CHIP	0		
JR322	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
JR401	1-216-295-00	SHORT CHIP	0		
JR402	1-216-296-00	SHORT CHIP	0		
		< COIL >			
L451	1-456-094-11	COIL, OSC	85KHZ BIAS		
		< TRANSISTOR >			
Q305	6-550-290-01	FET	2SJ460		
Q306	8-729-034-49	TRANSISTOR	KRC104S		
Q307	6-550-290-01	FET	2SJ460		
Q308	6-550-290-01	FET	2SJ460		
Q309	8-729-230-69	TRANSISTOR	2SA1362G		
Q310	8-729-230-69	TRANSISTOR	2SA1362G		
Q443	8-729-230-69	TRANSISTOR	2SA1362G		
Q444	8-729-230-69	TRANSISTOR	2SA1362G		
Q451	6-550-297-01	TRANSISTOR	2SA1981Y		
Q453	8-729-036-89	TRANSISTOR	KTC3198GR-A		
Q454	8-729-036-89	TRANSISTOR	KTC3198GR-A		
		< RESISTOR >			
R303	1-216-844-11	METAL CHIP	82K	5%	1/10W
R304	1-216-844-11	METAL CHIP	82K	5%	1/10W
R305	1-216-849-11	METAL CHIP	220K	5%	1/10W
R306	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R307	1-216-817-11	METAL CHIP	470	5%	1/10W
R308	1-216-817-11	METAL CHIP	470	5%	1/10W
R309	1-216-806-11	METAL CHIP	56	5%	1/10W
R310	1-216-806-11	METAL CHIP	56	5%	1/10W
R313	1-216-836-11	METAL CHIP	18K	5%	1/10W
R314	1-216-836-11	METAL CHIP	18K	5%	1/10W
R315	1-216-852-11	METAL CHIP	390K	5%	1/10W
R316	1-216-852-11	METAL CHIP	390K	5%	1/10W
R317	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R318	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R319	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R321	1-216-864-11	SHORT CHIP	0		
R322	1-216-864-11	SHORT CHIP	0		
R323	1-216-174-11	RES-CHIP	100	5%	1/8W
R375	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R376	1-216-821-11	METAL CHIP	1K	5%	1/10W
R399	1-216-857-11	METAL CHIP	1M	5%	1/10W
R401	1-216-846-11	METAL CHIP	120K	5%	1/10W
R402	1-216-846-11	METAL CHIP	120K	5%	1/10W
R403	1-216-821-11	METAL CHIP	1K	5%	1/10W
R404	1-216-821-11	METAL CHIP	1K	5%	1/10W
R405	1-216-841-11	METAL CHIP	47K	5%	1/10W
R406	1-216-841-11	METAL CHIP	47K	5%	1/10W
R407	1-216-821-11	METAL CHIP	1K	5%	1/10W
R408	1-216-821-11	METAL CHIP	1K	5%	1/10W
R409	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R410	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R411	1-216-835-11	METAL CHIP	15K	5%	1/10W
R412	1-216-835-11	METAL CHIP	15K	5%	1/10W
R413	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R414	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R415	1-216-819-11	METAL CHIP	680	5%	1/10W
R416	1-216-819-11	METAL CHIP	680	5%	1/10W

DECK | HEADPHONE | JOG | KEY LED RMC

Ref. No.	Part No.	Description			Remark
R417	1-216-833-11	METAL CHIP	10K	5%	1/10W
R418	1-216-833-11	METAL CHIP	10K	5%	1/10W
R419	1-216-821-11	METAL CHIP	1K	5%	1/10W
R420	1-216-821-11	METAL CHIP	1K	5%	1/10W
R421	1-216-837-11	METAL CHIP	22K	5%	1/10W
R422	1-216-837-11	METAL CHIP	22K	5%	1/10W
R423	1-216-836-11	METAL CHIP	18K	5%	1/10W
R424	1-216-836-11	METAL CHIP	18K	5%	1/10W
R425	1-216-833-11	METAL CHIP	10K	5%	1/10W
R453	1-216-663-91	METAL CHIP	3.3K		1/10W
R454	1-216-148-00	RES-CHIP	8.2	5%	1/8W
R455	1-216-836-11	METAL CHIP	18K	5%	1/10W
R456	1-216-836-11	METAL CHIP	18K	5%	1/10W
R457	1-249-395-11	CARBON	15	5%	1/4W
R458	1-216-845-11	METAL CHIP	100K	5%	1/10W
R459	1-216-154-00	RES-CHIP	15	5%	1/8W
R460	1-249-399-11	CARBON	33	5%	1/4W
R465	1-216-845-11	METAL CHIP	100K	5%	1/10W
R466	1-216-845-11	METAL CHIP	100K	5%	1/10W
		< VARIABLE RESISTOR >			
SFR451	1-241-766-11	RES, ADJ, CARBON 33K			
SFR452	1-241-766-11	RES, ADJ, CARBON 33K			

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	1-688-414-11	HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C550	1-115-467-11	CERAMIC CHIP	0.22	10%	10V
		< CONNECTOR >			
* CN530	1-564-520-11	PLUG, CONNECTOR 5P			
		< JACK >			
J521	1-566-891-21	JACK (PHONES)			
		< SHORT >			
JR501	1-216-296-00	SHORT CHIP	0		
		< RESISTOR >			
R521	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R522	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R523	1-249-659-31	CARBON	270	5%	1/2W
R524	1-249-659-31	CARBON	270	5%	1/2W
R525	1-249-659-31	CARBON	270	5%	1/2W
R526	1-249-659-31	CARBON	270	5%	1/2W

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	1-688-413-11	JOG BOARD			
		**********			
		< CAPACITOR >			
C370	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C371	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C372	1-162-927-11	CERAMIC CHIP	100PF	5%	50V

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R376	1-216-833-11	METAL CHIP	10K	5%	1/10W
R377	1-216-843-11	METAL CHIP	68K	5%	1/10W
R378	1-216-835-11	METAL CHIP	15K	5%	1/10W
R379	1-216-848-11	METAL CHIP	180K	5%	1/10W
R380	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S304	1-478-133-11	ENCODER, ROTARY (MULTI JOG)			

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	A-4733-395-A	KEY LED RMC BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C601	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C602	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C603	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C604	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C605	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C606	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C607	1-124-234-00	ELECT	22uF	20%	16V
C608	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C609	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C621	1-164-360-11	CERAMIC CHIP	0.1uF		16V
		< CONNECTOR >			
CN605	1-568-838-11	CONNECTOR, FFC 21P			
		< IC >			
IC601	8-759-396-78	IC BU2092F-E2			
IC602	6-704-046-01	IC BU2099FV			
IC603	6-600-217-01	IC RPM7238-H4			
		< SHORT >			
JR601	1-216-864-11	SHORT CHIP	0		
JR602	1-216-864-11	SHORT CHIP	0		
JR603	1-216-296-00	SHORT CHIP	0		
JR604	1-216-296-00	SHORT CHIP	0		
JR605	1-216-296-00	SHORT CHIP	0		
JR606	1-216-296-00	SHORT CHIP	0		
JR607	1-216-296-00	SHORT CHIP	0		
JR608	1-216-296-00	SHORT CHIP	0		
JR609	1-216-296-00	SHORT CHIP	0		
JR610	1-216-296-00	SHORT CHIP	0		
JR611	1-216-864-11	SHORT CHIP	0		
		< LED >			
LED631	8-719-057-28	LED SML78420C-TP15 (DISC INDICATOR 1)			
LED632	8-719-057-28	LED SML78420C-TP15 (DISC INDICATOR 2)			
LED633	8-719-057-28	LED SML78420C-TP15 (DISC INDICATOR 3)			
LED634	8-719-057-28	LED SML78420C-TP15 (DISC INDICATOR 4)			
LED635	8-719-057-28	LED SML78420C-TP15 (DISC INDICATOR 5)			
		< TRANSISTOR >			
Q601	6-550-336-01	TRANSISTOR	FMA9AT148		
Q602	6-550-336-01	TRANSISTOR	FMA9AT148		
Q603	6-550-336-01	TRANSISTOR	FMA9AT148		

KEY LED RMC | LCD VOL

Ref. No.	Part No.	Description			Remark
Q604	6-550-336-01	TRANSISTOR	FMA9AT148		
Q605	6-550-336-01	TRANSISTOR	FMA9AT148		
		< RESISTOR >			
R310	1-216-835-11	METAL CHIP	15K	5%	1/10W
R311	1-216-816-11	METAL CHIP	390	5%	1/10W
R312	1-216-819-11	METAL CHIP	680	5%	1/10W
R313	1-216-821-11	METAL CHIP	1K	5%	1/10W
R314	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R315	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R316	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R317	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R318	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R319	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R320	1-216-833-11	METAL CHIP	10K	5%	1/10W
R330	1-216-835-11	METAL CHIP	15K	5%	1/10W
R331	1-216-816-11	METAL CHIP	390	5%	1/10W
R332	1-216-819-11	METAL CHIP	680	5%	1/10W
R333	1-216-821-11	METAL CHIP	1K	5%	1/10W
R334	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R601	1-216-833-11	METAL CHIP	10K	5%	1/10W
R602	1-216-833-11	METAL CHIP	10K	5%	1/10W
R603	1-216-833-11	METAL CHIP	10K	5%	1/10W
R604	1-216-833-11	METAL CHIP	10K	5%	1/10W
R605	1-216-833-11	METAL CHIP	10K	5%	1/10W
R606	1-216-833-11	METAL CHIP	10K	5%	1/10W
R607	1-216-842-11	METAL CHIP	56K	5%	1/10W
R608	1-216-805-11	METAL CHIP	47	5%	1/10W
R611	1-216-809-11	METAL CHIP	100	5%	1/10W
R616	1-216-198-00	RES-CHIP	1K	5%	1/8W
R617	1-216-192-00	METAL CHIP	560	5%	1/8W
R618	1-216-192-00	METAL CHIP	560	5%	1/8W
R619	1-216-192-00	METAL CHIP	560	5%	1/8W
R620	1-216-192-00	METAL CHIP	560	5%	1/8W
R621	1-216-192-00	METAL CHIP	560	5%	1/8W
R622	1-216-192-00	METAL CHIP	560	5%	1/8W
R623	1-216-192-00	METAL CHIP	560	5%	1/8W
R624	1-216-192-00	METAL CHIP	560	5%	1/8W
R625	1-216-192-00	METAL CHIP	560	5%	1/8W
R626	1-216-192-00	METAL CHIP	560	5%	1/8W
		< SWITCH >			
S311	1-771-410-21	SWITCH, TACTILE (DISC SELECT 1)			
S312	1-771-410-21	SWITCH, TACTILE (DISC SELECT 2)			
S313	1-771-410-21	SWITCH, TACTILE (DISC SELECT 3)			
S314	1-771-410-21	SWITCH, TACTILE (DISC SELECT 4)			
S315	1-771-410-21	SWITCH, TACTILE (DISC SELECT 5)			
S316	1-771-410-21	SWITCH, TACTILE (EJECT ⏏)			
S317	1-771-410-21	SWITCH, TACTILE (PAUSE/SET ❚❚)			
S318	1-771-410-21	SWITCH, TACTILE (STOP/CLEAR ■)			
S319	1-771-410-21	SWITCH, TACTILE (PLAY MODE) (US)			
S319	1-771-410-21	SWITCH, TACTILE (REC ●) (EXCEPT US)			
S320	1-771-410-21	SWITCH, TACTILE (PRESET ▶) (US)			
S320	1-771-410-21	SWITCH, TACTILE (PRESET ◀▶) (EXCEPT US)			
S331	1-771-410-21	SWITCH, TACTILE (ALBUM/PLAY LIST ▲)			
S332	1-771-410-21	SWITCH, TACTILE (ALBUM/PLAY LIST ▼)			
S333	1-771-410-21	SWITCH, TACTILE (TUNING UP ▶▶I ▶▶)			

Ref. No.	Part No.	Description			Remark
S334	1-771-410-21	SWITCH, TACTILE (TUNING DOWN I◀◀ ◀◀)			
**********					
	A-4733-394-A	LCD VOL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C102	1-128-111-11	ELECT	100uF	20%	25V
C103	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C104	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C105	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C107	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C108	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C109	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C110	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C111	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C361	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C362	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C363	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C364	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C365	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C366	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C367	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C368	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C369	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CN001	1-784-780-11	CONNECTOR, FFC 19P			
CN004	1-568-838-11	CONNECTOR, FFC 21P			
		< IC >			
IC001	6-704-218-01	IC LC75874E			
		< SHORT >			
JR101	1-216-296-00	SHORT CHIP	0		
JR102	1-216-296-00	SHORT CHIP	0		
JR103	1-216-296-00	SHORT CHIP	0		
JR104	1-216-296-00	SHORT CHIP	0		
JR105	1-216-296-00	SHORT CHIP	0		
JR106	1-216-296-00	SHORT CHIP	0		
JR107	1-216-296-00	SHORT CHIP	0		
JR108	1-216-296-00	SHORT CHIP	0		
JR109	1-216-296-00	SHORT CHIP	0		
JR110	1-216-296-00	SHORT CHIP	0		
JR111	1-216-296-00	SHORT CHIP	0		
JR201	1-216-864-11	SHORT CHIP	0		
JR202	1-216-864-11	SHORT CHIP	0		
JR203	1-216-864-11	SHORT CHIP	0		
		< LIQUID CRYSTAL DISPLAY >			
LCD001	1-805-322-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< LED >			
LED204	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED205	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED206	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED207	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED208	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			

LCD VOL | **LED** | **LEFT BUTTON** | **MAIN**

Ref. No.	Part No.	Description			Remark
LED209	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED210	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED211	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED212	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED213	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED214	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED215	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED216	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED217	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED218	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED219	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED220	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED221	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED251	6-500-681-01	LED SELU1910CXMLF38 (LCD BACKLIGHT)			
LED252	6-500-681-01	LED SELU1910CXMLF38 (LCD BACKLIGHT)			
LED253	6-500-681-01	LED SELU1910CXMLF38 (LCD BACKLIGHT)			
LED254	6-500-681-01	LED SELU1910CXMLF38 (LCD BACKLIGHT)			
		< RESISTOR >			
R101	1-216-841-11	METAL CHIP	47K	5%	1/10W
R105	1-216-835-11	METAL CHIP	15K	5%	1/10W
R106	1-216-809-11	METAL CHIP	100	5%	1/10W
R107	1-216-809-11	METAL CHIP	100	5%	1/10W
R108	1-216-809-11	METAL CHIP	100	5%	1/10W
R109	1-216-809-11	METAL CHIP	100	5%	1/10W
R110	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R251	1-216-180-00	RES-CHIP	180	5%	1/8W
R252	1-216-180-00	RES-CHIP	180	5%	1/8W
R253	1-216-184-00	RES-CHIP	270	5%	1/8W
R254	1-216-184-00	RES-CHIP	270	5%	1/8W
R255	1-216-184-00	RES-CHIP	270	5%	1/8W
R256	1-216-184-00	RES-CHIP	270	5%	1/8W
R257	1-216-184-00	RES-CHIP	270	5%	1/8W
R258	1-216-184-00	RES-CHIP	270	5%	1/8W
R340	1-216-835-11	METAL CHIP	15K	5%	1/10W
R361	1-216-833-11	METAL CHIP	10K	5%	1/10W
R362	1-216-843-11	METAL CHIP	68K	5%	1/10W
R363	1-216-835-11	METAL CHIP	15K	5%	1/10W
R364	1-216-848-11	METAL CHIP	180K	5%	1/10W
R365	1-216-833-11	METAL CHIP	10K	5%	1/10W
R366	1-216-833-11	METAL CHIP	10K	5%	1/10W
R367	1-216-843-11	METAL CHIP	68K	5%	1/10W
R368	1-216-835-11	METAL CHIP	15K	5%	1/10W
R369	1-216-848-11	METAL CHIP	180K	5%	1/10W
R370	1-216-833-11	METAL CHIP	10K	5%	1/10W
R371	1-216-833-11	METAL CHIP	10K	5%	1/10W
R372	1-216-843-11	METAL CHIP	68K	5%	1/10W
R373	1-216-835-11	METAL CHIP	15K	5%	1/10W
R374	1-216-848-11	METAL CHIP	180K	5%	1/10W
R375	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S301	1-786-396-11	SW, RTRY EC12E24604-30MM (VOLUME)			
S302	1-478-082-11	ENCODER, ROTARY (BASS)			
S303	1-478-082-11	ENCODER, ROTARY (TREBLE/MIDDLE)			

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Ref. No.	Part No.	Description			Remark
		LED BOARD			
		**********			
		< LED >			
LED601	8-719-063-93	LED SLR325VC-N-T32 (DISC SLOT ILLUMINATION)			

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	1-688-407-11	LEFT BUTTON BOARD			
		**********			
		< LED >			
LED202	6-500-641-01	LED SLI-325URC (STANDBY/ON)			
LED203	8-719-063-93	LED SLR325VC-N-T32 (i-Bass)			
		< RESISTOR >			
R335	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R336	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R337	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R338	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R339	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R345	1-216-192-00	METAL CHIP	560	5%	1/8W
R346	1-216-198-00	RES-CHIP	1K	5%	1/8W
		< SWITCH >			
S335	1-771-410-21	SWITCH, TACTILE (POWER ⏻)			
S336	1-771-410-21	SWITCH, TACTILE (FUNCTION)			
S337	1-771-410-21	SWITCH, TACTILE (BAND)			
S338	1-771-410-21	SWITCH, TACTILE (GEQ)			
S339	1-771-410-21	SWITCH, TACTILE (i-Bass)			

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	A-4733-389-A	MAIN BOARD, COMPLETE (US)			
	A-4733-423-A	MAIN BOARD, COMPLETE (E51, MX)			
	A-4733-440-A	MAIN BOARD, COMPLETE (AEP. UK)			
		**********			
		< CAPACITOR/SHORT >			
C20	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C007	1-126-965-11	ELECT	22uF	20%	50V
C011	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C012	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C013	1-126-947-11	ELECT	47uF	20%	25V
C014	1-126-935-11	ELECT	470uF	20%	16V
C015	1-119-774-91	ELECT	100uF	20%	16V
C016	1-126-767-11	ELECT	1000uF	20%	16V
C017	1-126-964-11	ELECT	10uF	20%	50V
C018	1-124-584-00	ELECT	100uF	20%	10V
C019	1-119-772-11	ELECT	47uF	20%	25V
C050	1-126-964-11	ELECT	10uF	20%	50V
C052	1-126-947-11	ELECT	47uF	20%	25V
C477	1-126-963-11	ELECT	4.7uF	20%	50V
C501	1-124-261-91	ELECT	10uF	20%	50V
C502	1-124-261-00	ELECT	10uF	20%	50V
C503	1-126-963-11	ELECT	4.7uF	20%	50V
C504	1-126-963-11	ELECT	4.7uF	20%	50V
C507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C517	1-164-156-11	CERAMIC CHIP	0.1uF		25V

MAIN

Ref. No.	Part No.	Description			Remark
C518	1-104-665-11	ELECT	100uF	20%	10V
C519	1-104-665-11	ELECT	100uF	20%	10V
C601	1-124-261-00	ELECT	10uF	20%	50V
C602	1-124-261-00	ELECT	10uF	20%	50V
C603	1-119-774-11	ELECT	100uF	20%	16V
C604	1-126-163-11	ELECT	4.7uF	20%	50V
C606	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C607	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK)
C608	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK)
C610	1-126-963-11	ELECT	4.7uF	20%	50V
C611	1-126-163-11	ELECT	4.7uF	20%	50V
C613	1-126-163-11	ELECT	4.7uF	20%	50V
C614	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C615	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C617	1-124-261-00	ELECT	10uF	20%	50V
C618	1-124-261-00	ELECT	10uF	20%	50V
C619	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C621	1-136-157-00	FILM	0.022uF	5%	50V
C622	1-136-157-00	FILM	0.022uF	5%	50V
C623	1-126-160-11	ELECT	1uF	20%	50V
C624	1-126-160-11	ELECT	1uF	20%	50V
C625	1-136-161-00	FILM	0.047uF	5%	50V
C626	1-136-161-00	FILM	0.047uF	5%	50V
C627	1-137-457-11	MYLAR	0.0027uF	5%	50V
C628	1-137-457-11	MYLAR	0.0027uF	5%	50V
C629	1-126-163-11	ELECT	4.7uF	20%	50V
C630	1-126-963-11	ELECT	4.7uF	20%	50V
C631	1-136-169-00	FILM	0.22uF	5%	50V
C632	1-136-169-00	FILM	0.22uF	5%	50V
C633	1-136-157-00	FILM	0.022uF	5%	50V
C634	1-136-157-00	FILM	0.022uF	5%	50V
C635	1-136-169-00	FILM	0.22uF	5%	50V
C636	1-136-169-00	FILM	0.22uF	5%	50V
C637	1-126-964-11	ELECT	10uF	20%	50V
C640	1-126-947-11	ELECT	47uF	20%	16V
C641	1-126-947-11	ELECT	47uF	20%	16V
C643	1-126-963-11	ELECT	4.7uF	20%	50V
C645	1-124-234-00	ELECT	22uF	20%	16V
C653	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C654	1-164-388-11	CERAMIC CHIP	270PF	5%	50V
C655	1-164-388-11	CERAMIC CHIP	270PF	5%	50V
C656	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C657	1-119-774-11	ELECT	100uF	20%	16V (US)
C657	1-126-933-11	ELECT	100uF	20%	16V (EXCEPT US)
C661	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C662	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C663	1-124-261-00	ELECT	10uF	20%	50V
C664	1-124-261-00	ELECT	10uF	20%	50V
C665	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C666	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C668	1-124-589-11	ELECT	47uF	20%	16V (AEP, UK)
C669	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP, UK)
C675	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C676	1-126-960-11	ELECT	1uF	20%	50V
C677	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C682	1-137-367-11	MYLAR	0.0033uF	5%	50V
C683	1-137-367-11	MYLAR	0.0033uF	5%	50V
C684	1-136-159-00	FILM	0.033uF	5%	50V
C685	1-136-159-00	FILM	0.033uF	5%	50V
C686	1-126-963-11	ELECT	4.7uF	20%	50V
C687	1-126-963-11	ELECT	4.7uF	20%	50V
C691	1-126-963-11	ELECT	4.7uF	20%	50V
C692	1-126-963-11	ELECT	4.7uF	20%	50V
C693	1-124-465-00	ELECT	0.47uF	20%	50V
C694	1-216-864-11	SHORT CHIP	0		
C696	1-136-169-00	FILM	0.22uF	5%	50V
C697	1-136-169-00	FILM	0.22uF	5%	50V
C700	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C702	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C790	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C791	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C792	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C866	1-126-964-11	ELECT	10uF	20%	50V (AEP, UK)
C867	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP, UK)
C872	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C873	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C876	1-126-963-11	ELECT	4.7uF	20%	50V
C882	1-126-963-11	ELECT	4.7uF	20%	50V
C883	1-126-963-11	ELECT	4.7uF	20%	50V
C892	1-126-947-11	ELECT	47uF	20%	16V
C894	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C901	1-104-665-11	ELECT	100uF	20%	10V
C905	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C906	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C908	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C909	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C910	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C911	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C912	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C913	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C914	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C915	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C916	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C917	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C918	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C919	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C920	1-115-156-11	CERAMIC CHIP	1uF		10V
C921	1-115-156-11	CERAMIC CHIP	1uF		10V
C922	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C923	1-115-156-11	CERAMIC CHIP	1uF		10V
C924	1-104-906-11	DOUBLE LAYER	0.22F		50V
C925	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C926	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C927	1-126-964-11	ELECT	10uF	20%	50V
C928	1-126-965-11	ELECT	22uF	20%	50V
C930	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C931	1-126-964-11	ELECT	10uF	20%	50V
C932	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C933	1-128-551-11	ELECT	22uF	20%	25V

MAIN

Ref. No.	Part No.	Description			Remark
C934	1-126-933-11	ELECT	100uF	20%	16V
C935	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C936	1-126-933-11	ELECT	100uF	20%	16V
C938	1-126-960-11	ELECT	1uF	20%	50V
C939	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C940	1-126-767-11	ELECT	1000uF	20%	16V
C943	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C944	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C945	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C946	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C948	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C949	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C950	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C951	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C952	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C953	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C954	1-164-173-11	CERAMIC CHIP	0.0039uF	10%	50V
C955	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C956	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C957	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C958	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C959	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C960	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C961	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C962	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C963	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN004	1-784-778-11	CONNECTOR, FFC 17P			
CN006	1-564-509-11	PLUG, CONNECTOR 6P			
CN007	1-564-507-11	PLUG, CONNECTOR 4P			
CN009	1-568-830-11	CONNECTOR, FFC 11P (EXCEPT US)			
CN502	1-784-733-11	CONNECTOR, FFC 11P			
CN504	1-784-766-11	CONNECTOR, FFC 5P (E51, MX)			
CN507	1-779-279-11	CONNECTOR, FFC (LIF (NON-ZIF)) 11P			
CN508	1-784-776-11	CONNECTOR, FFC 15P (AEP. UK)			
CN509	1-568-830-11	CONNECTOR, FFC 11P (EXCEPT AEP, UK)			
CN901	1-779-295-11	CONNECTOR, FFC (LIF (NON-ZIF)) 27P			
CN902	1-779-291-11	CONNECTOR, FFC (LIF (NON-ZIF)) 23P			
CN903	1-691-040-31	CONNECTOR, FFC 8P (EXCEPT US)			
CN905	1-784-780-11	CONNECTOR, FFC 19P			
CN999	1-568-826-11	CONNECTOR, FFC 7P			
		< DIODE >			
D015	8-719-421-18	DIODE MA8033-L-TX			
D016	8-719-988-61	DIODE 1SS355TE-17			
D017	8-719-988-61	DIODE 1SS355TE-17			
D018	8-719-988-61	DIODE 1SS355TE-17			
D050	8-719-988-61	DIODE 1SS355TE-17			
D501	8-719-083-58	DIODE UDZSTE-173.9B			
D611	8-719-988-61	DIODE 1SS355TE-17			
D612	8-719-988-61	DIODE 1SS355TE-17			
D613	8-719-988-61	DIODE 1SS355TE-17			
D902	8-719-988-61	DIODE 1SS355TE-17			
D904	8-719-988-61	DIODE 1SS355TE-17			
D905	8-719-988-61	DIODE 1SS355TE-17			
D906	8-719-988-61	DIODE 1SS355TE-17			
D907	8-719-988-61	DIODE 1SS355TE-17 (EXCEPT US)			

Ref. No.	Part No.	Description	Remark
D910	8-719-423-10	DIODE MA8100-M-TX	
D911	8-719-988-61	DIODE 1SS355TE-17	
		< IC >	
IC101	8-759-231-57	IC TA7810S	
IC501	8-759-525-25	IC BU4052BCF-E2	
IC601	6-703-650-11	IC M61529FP-D60G	
IC603	6-704-074-01	IC NJM2156M (TE2)	
IC604	6-600-234-01	IC GP1FA313TZ (DIGITAL OPTICAL OUT)	(AEP. UK)
IC701	6-704-046-01	IC BU2099FV	
IC703	6-704-046-01	IC BU2099FV	
IC901	6-803-325-01	IC uPD703260YGF-S04-JBT-A	
IC902	6-704-798-01	IC BD4923G	
IC904	8-759-533-04	IC M62703ML-E1	
IC905	6-704-135-01	IC MM1614A	
		< JACK >	
JK602	1-779-902-21	JACK, PIN 4P (AUX IN/OUT)	
JK603	1-774-227-11	JACK, PIN 1P (VIDEO OUT)	
		< SHORT >	
JR001	1-216-296-00	SHORT CHIP 0	
JR002	1-216-296-00	SHORT CHIP 0	
JR501	1-216-864-11	SHORT CHIP 0	
JR502	1-216-296-00	SHORT CHIP 0	
JR503	1-216-864-11	SHORT CHIP 0	
JR601	1-216-296-00	SHORT CHIP 0	
JR607	1-216-864-11	SHORT CHIP 0	
JR610	1-216-864-11	SHORT CHIP 0	
JR611	1-216-864-11	SHORT CHIP 0	
JR612	1-216-864-11	SHORT CHIP 0	
JR613	1-216-864-11	SHORT CHIP 0	
JR614	1-216-864-11	SHORT CHIP 0	
JR615	1-216-864-11	SHORT CHIP 0	
JR616	1-216-864-11	SHORT CHIP 0	
JR617	1-216-864-11	SHORT CHIP 0	
JR620	1-216-864-11	SHORT CHIP 0	
JR621	1-216-864-11	SHORT CHIP 0	
JR624	1-216-864-11	SHORT CHIP 0 (US, AEP, UK)	
JR701	1-216-296-00	SHORT CHIP 0	
JR702	1-216-864-11	SHORT CHIP 0	
JR703	1-216-864-11	SHORT CHIP 0	
JR704	1-216-864-11	SHORT CHIP 0	
JR705	1-216-864-11	SHORT CHIP 0	
JR706	1-216-864-11	SHORT CHIP 0	
JR707	1-216-864-11	SHORT CHIP 0	
JR708	1-216-864-11	SHORT CHIP 0	
JR709	1-216-864-11	SHORT CHIP 0	
JR801	1-216-296-00	SHORT CHIP 0	
JR802	1-216-864-11	SHORT CHIP 0	
JR901	1-216-864-11	SHORT CHIP 0	
JR902	1-216-864-11	SHORT CHIP 0	
JR903	1-216-864-11	SHORT CHIP 0	
JR904	1-216-296-00	SHORT CHIP 0	
JR905	1-216-296-00	SHORT CHIP 0	
JR906	1-216-296-00	SHORT CHIP 0	

MAIN

Ref. No.	Part No.	Description			Remark
JR907	1-216-864-11	SHORT CHIP	0		
JR908	1-216-864-11	SHORT CHIP	0 (AEP, UK)		
		< SHORT >			
L901	1-216-365-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q25	8-729-027-46	TRANSISTOR	DTC114YKA-T146		
Q018	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q019	8-729-024-93	TRANSISTOR	2SB1370-E		
Q024	8-729-801-84	TRANSISTOR	2SB1013-TP-34		
Q050	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q051	8-729-201-53	TRANSISTOR	2SA1015TP-GR		
Q602	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q604	8-729-052-79	TRANSISTOR	2SD1306NE		
Q605	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q607	8-729-052-79	TRANSISTOR	2SD1306NE		
Q608	6-550-580-01	TRANSISTOR	2SA1235TP-1F		
Q614	8-729-045-62	FET	2SK2158-T2B		
Q615	8-729-045-62	FET	2SK2158-T2B		
Q616	8-729-045-62	FET	2SK2158-T2B		
Q617	8-729-045-62	FET	2SK2158-T2B		
Q618	8-729-045-62	FET	2SK2158-T2B		
Q619	8-729-045-62	FET	2SK2158-T2B		
Q620	8-729-045-62	FET	2SK2158-T2B		
Q623	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q624	8-729-045-62	FET	2SK2158-T2B		
Q625	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q890	8-729-037-03	TRANSISTOR	KTA1266GR-AT		
Q891	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q892	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q901	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q902	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
Q904	8-729-116-57	TRANSISTOR	2SB1068TP-K (EXCEPT US)		
Q905	8-729-140-04	TRANSISTOR	2SB1116A-TP-LK		(EXCEPT US)
Q906	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
		< RESISTOR >			
R003	1-216-296-00	SHORT CHIP	0		
R011	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R016	1-249-413-11	CARBON	470	5%	1/4W
R017	1-216-841-11	METAL CHIP	47K	5%	1/10W
R018	1-216-809-11	METAL CHIP	100	5%	1/10W
R019	1-216-817-11	METAL CHIP	470	5%	1/10W
R020	1-216-864-11	SHORT CHIP	0		
R031	1-216-817-11	METAL CHIP	470	5%	1/10W
R032	1-216-841-11	METAL CHIP	47K	5%	1/10W
R038	1-249-409-11	CARBON	220	5%	1/4W
R050	1-216-845-11	METAL CHIP	100K	5%	1/10W
R052	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R053	1-216-836-11	METAL CHIP	18K	5%	1/10W
R509	1-216-833-11	METAL CHIP	10K	5%	1/10W
R510	1-216-833-11	METAL CHIP	10K	5%	1/10W
R511	1-216-837-11	METAL CHIP	22K	5%	1/10W
R512	1-216-837-11	METAL CHIP	22K	5%	1/10W
R513	1-216-837-11	METAL CHIP	22K	5%	1/10W
R514	1-216-837-11	METAL CHIP	22K	5%	1/10W
R515	1-216-837-11	METAL CHIP	22K	5%	1/10W
R516	1-216-837-11	METAL CHIP	22K	5%	1/10W
R517	1-216-174-11	METAL CHIP	100	5%	1/8W
R518	1-216-174-11	METAL CHIP	100	5%	1/8W
R520	1-216-853-11	METAL CHIP	470K	5%	1/10W
R521	1-216-864-11	SHORT CHIP	0		
R522	1-216-864-11	SHORT CHIP	0		
R523	1-216-864-11	SHORT CHIP	0		
R524	1-216-864-11	SHORT CHIP	0		
R525	1-216-809-11	METAL CHIP	100	5%	1/10W
R526	1-216-809-11	METAL CHIP	100	5%	1/10W
R527	1-216-809-11	METAL CHIP	100	5%	1/10W
R528	1-216-809-11	METAL CHIP	100	5%	1/10W
R529	1-216-809-11	METAL CHIP	100	5%	1/10W
R530	1-216-809-11	METAL CHIP	100	5%	1/10W
R531	1-216-809-11	METAL CHIP	100	5%	1/10W
R601	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R602	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R603	1-216-837-11	METAL CHIP	22K	5%	1/10W
R604	1-216-837-11	METAL CHIP	22K	5%	1/10W
R605	1-216-838-11	METAL CHIP	27K	5%	1/10W
R606	1-216-838-11	METAL CHIP	27K	5%	1/10W
R607	1-216-864-11	SHORT CHIP	0		
R609	1-216-864-11	SHORT CHIP	0		
R610	1-216-864-11	SHORT CHIP	0		
R613	1-216-864-11	SHORT CHIP	0 (EXCEPT US)		
R614	1-216-864-11	SHORT CHIP	0 (EXCEPT US)		
R615	1-216-864-11	SHORT CHIP	0		
R616	1-216-864-11	SHORT CHIP	0		
R617	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R618	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R619	1-216-821-11	METAL CHIP	1K	5%	1/10W
R620	1-216-821-11	METAL CHIP	1K	5%	1/10W
R621	1-216-835-11	METAL CHIP	15K	5%	1/10W
R622	1-216-835-11	METAL CHIP	15K	5%	1/10W
R623	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R624	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R625	1-216-833-11	METAL CHIP	10K	5%	1/10W
R626	1-216-833-11	METAL CHIP	10K	5%	1/10W
R627	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E51, MX)
R628	1-216-837-11	METAL CHIP	22K	5%	1/10W
R629	1-216-150-00	RES-CHIP	10	5%	1/8W
R630	1-216-833-11	METAL CHIP	10K	5%	1/10W
R635	1-216-842-11	METAL CHIP	56K	5%	1/10W
R636	1-216-838-11	METAL CHIP	27K	5%	1/10W
R639	1-216-821-11	METAL CHIP	1K	5%	1/10W
R640	1-216-861-11	METAL CHIP	2.2M	5%	1/10W
R641	1-216-861-11	METAL CHIP	2.2M	5%	1/10W
R642	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R643	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R644	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R645	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R647	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R648	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R649	1-216-864-11	SHORT CHIP	0		
R650	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R651	1-216-845-11	METAL CHIP	100K	5%	1/10W
R652	1-216-845-11	METAL CHIP	100K	5%	1/10W
R655	1-216-824-11	METAL CHIP	4.7K	5%	1/10W
R656	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R657	1-216-821-11	METAL CHIP	1K	5%	1/10W
R658	1-216-820-11	METAL CHIP	820	5%	1/10W
R659	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R660	1-216-825-11	METAL CHIP	3.3K	5%	1/10W
R662	1-216-864-11	SHORT CHIP	0		
R663	1-216-833-11	METAL CHIP	10K	5%	1/10W
R664	1-216-836-11	METAL CHIP	18K	5%	1/10W
R665	1-216-857-11	METAL CHIP	1M	5%	1/10W
R666	1-216-814-11	METAL CHIP	270	5%	1/10W
R667	1-216-833-11	METAL CHIP	10K	5%	1/10W
R668	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R669	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R670	1-216-809-11	METAL CHIP	100	5%	1/10W
R671	1-216-809-11	METAL CHIP	100	5%	1/10W
R672	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R674	1-216-845-11	METAL CHIP	100K	5%	1/10W
R675	1-216-825-11	METAL CHIP	2.2K	5%	1/10
R676	1-216-825-11	METAL CHIP	2.2K	5%	1/10
R677	1-216-837-11	METAL CHIP	22K	5%	1/10W
R678	1-216-849-11	METAL CHIP	220K	5%	1/10W
R679	1-216-845-11	METAL CHIP	100K	5%	1/10W
R680	1-216-849-11	METAL CHIP	220K	5%	1/10W
R681	1-216-849-11	METAL CHIP	220K	5%	1/10W
R682	1-216-841-11	METAL CHIP	47K	5%	1/10W
R683	1-216-844-11	METAL CHIP	82K	5%	1/10W
R684	1-216-833-11	METAL CHIP	10K	5%	1/10W
R685	1-216-841-11	METAL CHIP	47K	5%	1/10W
R686	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R687	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R688	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R689	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R692	1-216-809-11	METAL CHIP	100	5%	1/10W
R693	1-216-809-11	METAL CHIP	100	5%	1/10W
R694	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R695	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R696	1-216-845-11	METAL CHIP	100K	5%	1/10W
R697	1-216-845-11	METAL CHIP	100K	5%	1/10W
R698	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R699	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R701	1-216-849-11	METAL CHIP	220K	5%	1/10W
R702	1-216-841-11	METAL CHIP	47K	5%	1/10W
R703	1-216-821-11	METAL CHIP	1K	5%	1/10W
R704	1-216-821-11	METAL CHIP	1K	5%	1/10W
R707	1-216-833-11	METAL CHIP	10K	5%	1/10W
R708	1-216-833-11	METAL CHIP	10K	5%	1/10W
R709	1-216-833-11	METAL CHIP	10K	5%	1/10W
R710	1-216-833-11	METAL CHIP	10K	5%	1/10W
R711	1-216-833-11	METAL CHIP	10K	5%	1/10W
R712	1-216-821-11	METAL CHIP	1K	5%	1/10W
R713	1-216-821-11	METAL CHIP	1K	5%	1/10W
R714	1-216-833-11	METAL CHIP	10K	5%	1/10W
R715	1-216-833-11	METAL CHIP	10K	5%	1/10W
R716	1-216-833-11	METAL CHIP	10K	5%	1/10W
R717	1-216-833-11	METAL CHIP	10K	5%	1/10W
R718	1-216-833-11	METAL CHIP	10K	5%	1/10W
R719	1-216-833-11	METAL CHIP	10K	5%	1/10W
R721	1-216-833-11	METAL CHIP	10K	5%	1/10W
R722	1-216-833-11	METAL CHIP	10K	5%	1/10W
R723	1-216-821-11	METAL CHIP	1K	5%	1/10W
R724	1-216-821-11	METAL CHIP	1K	5%	1/10W
R725	1-216-821-11	METAL CHIP	1K	5%	1/10W
R726	1-216-821-11	METAL CHIP	1K	5%	1/10W
R727	1-216-833-11	METAL CHIP	10K	5%	1/10W
R728	1-216-833-11	METAL CHIP	10K	5%	1/10W
R729	1-216-833-11	METAL CHIP	10K	5%	1/10W
R730	1-216-821-11	METAL CHIP	1K	5%	1/10W
R731	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R732	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R733	1-216-821-11	METAL CHIP	1K	5%	1/10W
R734	1-216-821-11	METAL CHIP	1K	5%	1/10W
R737	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R738	1-216-821-11	METAL CHIP	1K	5%	1/10W
R739	1-216-821-11	METAL CHIP	1K	5%	1/10W
R740	1-216-821-11	METAL CHIP	1K	5%	1/10W
R741	1-216-821-11	METAL CHIP	1K	5%	1/10W
R744	1-216-821-11	METAL CHIP	1K	5%	1/10W
R745	1-216-821-11	METAL CHIP	1K	5%	1/10W
R746	1-216-821-11	METAL CHIP	1K	5%	1/10W
R747	1-216-821-11	METAL CHIP	1K	5%	1/10W
R748	1-216-821-11	METAL CHIP	1K	5%	1/10W
R749	1-216-821-11	METAL CHIP	1K	5%	1/10W
R750	1-216-821-11	METAL CHIP	1K	5%	1/10W
R751	1-216-821-11	METAL CHIP	1K	5%	1/10W
R752	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R753	1-216-821-11	METAL CHIP	1K	5%	1/10W
R754	1-216-821-11	METAL CHIP	1K	5%	1/10W
R755	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R756	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R759	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R760	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R761	1-216-833-11	METAL CHIP	10K	5%	1/10W
R762	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R763	1-216-841-11	METAL CHIP	47K	5%	1/10W (EXCEPT US)
R764	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R765	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R766	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R767	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R768	1-216-833-11	METAL CHIP	10K	5%	1/10W
R769	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R770	1-216-864-11	SHORT CHIP	0		
R771	1-216-864-11	SHORT CHIP	0		
R772	1-216-864-11	SHORT CHIP	0		
R773	1-216-864-11	SHORT CHIP	0		
R774	1-216-864-11	SHORT CHIP	0		
R778	1-216-864-11	SHORT CHIP	0		
R779	1-216-864-11	SHORT CHIP	0		
R780	1-216-864-11	SHORT CHIP	0		
R781	1-216-864-11	SHORT CHIP	0		
R782	1-216-841-11	METAL CHIP	47K	5%	1/10W
R783	1-216-841-11	METAL CHIP	47K	5%	1/10W
R784	1-216-841-11	METAL CHIP	47K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R785	1-216-841-11	METAL CHIP	47K	5%	1/10W
R786	1-216-841-11	METAL CHIP	47K	5%	1/10W
R787	1-216-841-11	METAL CHIP	47K	5%	1/10W
R788	1-216-841-11	METAL CHIP	47K	5%	1/10W
R789	1-216-841-11	METAL CHIP	47K	5%	1/10W
R863	1-216-807-11	METAL CHIP	68	5%	1/10W (AEP, UK)
R879	1-216-821-11	METAL CHIP	1K	5%	1/10W
R880	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R881	1-216-841-11	METAL CHIP	47K	5%	1/10W
R884	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R885	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R887	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R888	1-216-809-11	METAL CHIP	100	5%	1/10W
R890	1-216-841-11	METAL CHIP	47K	5%	1/10W
R891	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R892	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R893	1-216-833-11	METAL CHIP	10K	5%	1/10W
R894	1-216-864-11	SHORT CHIP	0		
R895	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R896	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R901	1-216-841-11	METAL CHIP	47K	5%	1/10W
R902	1-216-841-11	METAL CHIP	47K	5%	1/10W
R903	1-216-841-11	METAL CHIP	47K	5%	1/10W
R904	1-216-841-11	METAL CHIP	47K	5%	1/10W
R905	1-216-841-11	METAL CHIP	47K	5%	1/10W
R906	1-216-841-11	METAL CHIP	47K	5%	1/10W
R907	1-216-841-11	METAL CHIP	47K	5%	1/10W
R908	1-216-841-11	METAL CHIP	47K	5%	1/10W
R909	1-216-841-11	METAL CHIP	47K	5%	1/10W
R910	1-216-809-11	METAL CHIP	100	5%	1/10W
R911	1-216-809-11	METAL CHIP	100	5%	1/10W
R912	1-216-809-11	METAL CHIP	100	5%	1/10W
R913	1-216-809-11	METAL CHIP	100	5%	1/10W
R914	1-216-809-11	METAL CHIP	100	5%	1/10W
R915	1-216-809-11	METAL CHIP	100	5%	1/10W
R916	1-216-841-11	METAL CHIP	47K	5%	1/10W
R917	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R918	1-216-841-11	METAL CHIP	47K	5%	1/10W
R919	1-216-841-11	METAL CHIP	47K	5%	1/10W
R920	1-216-833-11	METAL CHIP	10K	5%	1/10W
R921	1-216-841-11	METAL CHIP	47K	5%	1/10W
R922	1-216-841-11	METAL CHIP	47K	5%	1/10W
R923	1-216-809-11	METAL CHIP	100	5%	1/10W
R924	1-216-809-11	METAL CHIP	100	5%	1/10W
R925	1-216-809-11	METAL CHIP	100	5%	1/10W
R926	1-216-809-11	METAL CHIP	100	5%	1/10W
R927	1-216-809-11	METAL CHIP	100	5%	1/10W
R928	1-216-809-11	METAL CHIP	100	5%	1/10W
R929	1-216-809-11	METAL CHIP	100	5%	1/10W
R930	1-216-809-11	METAL CHIP	100	5%	1/10W
R931	1-216-809-11	METAL CHIP	100	5%	1/10W
R932	1-216-809-11	METAL CHIP	100	5%	1/10W
R933	1-216-809-11	METAL CHIP	100	5%	1/10W
R934	1-216-809-11	METAL CHIP	100	5%	1/10W
R935	1-216-809-11	METAL CHIP	100	5%	1/10W
R936	1-216-809-11	METAL CHIP	100	5%	1/10W
R937	1-216-809-11	METAL CHIP	100	5%	1/10W
R938	1-216-809-11	METAL CHIP	100	5%	1/10W
R939	1-216-809-11	METAL CHIP	100	5%	1/10W
R940	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R941	1-216-847-11	METAL CHIP	150K	5%	1/10W
R942	1-216-843-11	METAL CHIP	68K	5%	1/10W
R943	1-216-864-11	SHORT CHIP	0 (EXCEPT US)		
R944	1-216-833-11	METAL CHIP	10K	5%	1/10W (EXCEPT US)
R945	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E51, MX)
R945	1-216-833-11	METAL CHIP	10K	5%	1/10W (US)
R945	1-216-847-11	METAL CHIP	150K	5%	1/10W (AEP, UK)
R946	1-216-864-11	SHORT CHIP	0		
R947	1-216-821-11	METAL CHIP	1K	5%	1/10W
R950	1-216-864-11	SHORT CHIP	0		
R951	1-216-833-11	METAL CHIP	10K	5%	1/10W
R952	1-216-845-11	METAL CHIP	100K	5%	1/10W
R953	1-216-845-11	METAL CHIP	100K	5%	1/10W
R954	1-216-833-11	METAL CHIP	10K	5%	1/10W
R955	1-216-049-11	RES-CHIP	1K	5%	1/10W
R957	1-216-864-11	SHORT CHIP	0		
R958	1-216-840-11	METAL CHIP	39K	5%	1/10W
R959	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R960	1-216-849-11	METAL CHIP	220K	5%	1/10W
R961	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R962	1-216-833-11	METAL CHIP	10K	5%	1/10W
R967	1-216-025-11	RES-CHIP	100	5%	1/10W
R968	1-216-821-11	METAL CHIP	1K	5%	1/10W
R969	1-216-838-11	METAL CHIP	27K	5%	1/10W
R970	1-216-864-11	SHORT CHIP	0		
R980	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R981	1-216-817-11	METAL CHIP	470	5%	1/10W
R982	1-216-845-11	METAL CHIP	100K	5%	1/10W
R983	1-216-845-11	METAL CHIP	100K	5%	1/10W
R984	1-216-809-11	METAL CHIP	100	5%	1/10W
R985	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT US)
R986	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT US)
R987	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT US)
R988	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT US)
R989	1-216-841-11	METAL CHIP	47K	5%	1/10W (EXCEPT US)
R990	1-216-841-11	METAL CHIP	47K	5%	1/10W (EXCEPT US)
R991	1-216-841-11	METAL CHIP	47K	5%	1/10W (EXCEPT US)
R992	1-216-841-11	METAL CHIP	47K	5%	1/10W (EXCEPT US)
R995	1-216-833-11	METAL CHIP	10K	5%	1/10W (US, E51, MX)
R995	1-216-857-11	METAL CHIP	1M	5%	1/10W (AEP, UK)
R996	1-216-833-11	METAL CHIP	10K	5%	1/10W (US, E51, MX)

MAIN | MIC | MODE MOTOR | PT | RIGHT BUTTON (1)

Ref. No.	Part No.	Description			Remark
R996	1-216-864-11	SHORT CHIP	0 (AEP, UK)		
R997	1-216-833-11	METAL CHIP	10K	5%	1/10W (US, E51, MX)
R997	1-216-864-11	SHORT CHIP	0 (AEP, UK)		
R998	1-220-397-11	METAL CHIP	4.7M	5%	1/10W
R999	1-216-851-11	METAL CHIP	330K	5%	1/10W
		< VIBRATOR >			
X901	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)			
X902	1-795-058-21	VIBRATOR, CERAMIC (5MHz)			
**********					
	A-4733-419-A	MIC BOARD, COMPLETE (E51, MX)			
		**********			
		< CAPACITOR >			
C203	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C204	1-126-957-11	ELECT	0.22uF	20%	50V
C205	1-126-964-11	ELECT	10uF	20%	50V
C206	1-126-934-11	ELECT	220uF	20%	10V
C207	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C208	1-126-960-11	ELECT	1uF	20%	50V
C209	1-126-964-11	ELECT	10uF	20%	50V
C210	1-126-965-11	ELECT	22uF	20%	50V
C211	1-164-473-11	CERAMIC CHIP	820PF	5%	50V
C212	1-126-959-11	ELECT	0.47uF	20%	50V
C213	1-126-961-11	ELECT	2.2uF	20%	50V
C216	1-126-959-11	ELECT	0.47uF	20%	50V
C219	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
		< CONNECTOR >			
CN205	1-784-766-11	CONNECTOR, FFC 5P			
		< DIODE >			
D201	8-719-988-61	DIODE 1SS355TE-17			
D202	8-719-988-61	DIODE 1SS355TE-17			
		< FERRITE BEAD >			
* FB201	1-543-959-22	FERRITE	0uH		
		< IC >			
IC201	8-759-710-97	IC NJM4565M (TE2)			
		< JACK >			
J201	1-816-860-11	JACK, 6.3 BLK MONO W/SW V MSC (MIC)			
		< SHORT >			
JR204	1-216-864-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q201	8-729-045-62	FET	2SK2158-T2B		
		< RESISTOR >			
R201	1-216-833-11	METAL CHIP	10K	5%	1/10W
R202	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R203	1-216-849-11	METAL CHIP	220K	5%	1/10W
R204	1-216-809-11	METAL CHIP	100	5%	1/10W
R205	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R206	1-216-850-11	METAL CHIP	270K	5%	1/10W
R207	1-216-821-11	METAL CHIP	1K	5%	1/10W
R208	1-216-174-00	RES-CHIP	100	5%	1/8W
R209	1-216-817-11	METAL CHIP	470	5%	1/10W
R210	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R211	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R212	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R213	1-216-839-11	METAL CHIP	33K	5%	1/10W
R214	1-216-797-11	METAL CHIP	10	5%	1/10W
R215	1-216-817-11	METAL CHIP	470	5%	1/10W
R216	1-216-821-11	METAL CHIP	1K	5%	1/10W
R232	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< VARIABLE RESISTOR >			
VR201	1-227-502-11	RES, VAR, CARBON 10K (MIC MIXING)			
**********					
	1-686-724-12	MODE MOTOR BOARD			
		**********			
**********					
	1-688-417-11	PT BOARD (US, AEP, UK)			
	1-688-421-11	PT BOARD (E51, MX)			
		*********			
		< CAPACITOR >			
C009	1-164-005-11	CERAMIC CHIP	0.47uF		25V (E51, MX)
C025	1-164-005-11	CERAMIC CHIP	0.47uF		25V (US, AEP, UK)
		< CONNECTOR >			
* CN001	1-564-915-11	PIN, CONNECTOR (3.96mm PITCH) 7P (US)			
* CN007	1-564-687-11	PIN, CONNECTOR (3.96mm PITCH) 3P (E51)			
* CN008	1-564-687-11	PIN, CONNECTOR (3.96mm PITCH) 3P (E51)			
* CN010	1-564-321-21	PIN, CONNECTOR (3.96mm PITCH) 2P			(EXCEPT E51)
* CN011	1-564-242-00	PIN, CONNECTOR (3.96mm PITCH) 5P			(AEP, UK)
* CN015	1-564-915-11	PIN, CONNECTOR (3.96mm PITCH) 7P			(E51, MX)
**********					
	1-688-408-11	RIGHT BUTTON (1) BOARD			
		**********			
		< RESISTOR >			
R341	1-216-816-11	METAL CHIP	390	5%	1/10W
R342	1-216-819-11	METAL CHIP	680	5%	1/10W
R343	1-216-821-11	METAL CHIP	1K	5%	1/10W
R344	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
		< SWITCH >			
S341	1-771-410-21	SWITCH, TACTILE (TITLE)			
S342	1-771-410-21	SWITCH, TACTILE (DISPLAY)			
S343	1-771-410-21	SWITCH, TACTILE (MODE)			
**********					

Ref. No.	Part No.	Description			Remark
	1-688-409-11	RIGHT BUTTON (2) BOARD			
		**********			
		< SWITCH >			
S344	1-771-410-21	SWITCH, TACTILE (ENTER)			
**********					
	1-686-726-12	ROLLER MOTOR BOARD			
		**********			
**********					
	1-686-723-12	SENSOR BOARD			
		**********			
		< IC >			
IC751	8-749-017-45	SENSOR, PHONT RPR-220C1N			
		(DISC INSERT DETECT SENSOR)			
**********					
	1-688-419-11	SPEAKER BOARD			
		**********			
		< CAPACITOR >			
C524	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C525	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C526	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C527	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C532	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C533	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C534	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C535	1-165-621-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >			
* CN503	1-564-241-11	PIN, CONNECTOR (3.96mm PITCH) 4P			
		< JACK >			
JK502	1-694-635-12	TERMINAL BOARD (4P) (SPEAKER)			
		< COIL >			
L501	1-420-872-52	COIL, AIR-CORE			
L502	1-420-872-52	COIL, AIR-CORE			
		< RESISTOR >			
R570	1-249-625-31	CARBON	10	5%	1/2W
R571	1-249-625-31	CARBON	10	5%	1/2W
R572	1-249-393-11	CARBON	10	5%	1/4W
R573	1-249-393-11	CARBON	10	5%	1/4W
**********					
	1-686-725-12	STOCKER MOTOR BOARD			
		**********			
**********					

Ref. No.	Part No.	Description			Remark
	1-686-727-12	SW (1) BOARD			
		**********			
		< SWITCH >			
S711	1-786-382-11	SWITCH, PUSH (1 KEY)			
		(DISC INSERT (8/12cm))			
**********					
	1-686-728-12	SW (2) BOARD			
		**********			
		< SWITCH >			
S713	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC IN (8/12cm))			
S714	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC IN (8cm))			
**********					
	1-686-729-12	SW (3) BOARD			
		**********			
		< SWITCH >			
S715	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC OUT)			
**********					
	1-686-730-12	SW (4) BOARD			
		**********			
		< SWITCH >			
S716	1-786-382-11	SWITCH, PUSH (1 KEY) (STOCKER IN/OUT)			
S717	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC POSITION)			
S718	1-786-382-11	SWITCH, PUSH (1 KEY) (STOCKING)			
**********					
	A-4733-399-A	USB AUX BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C700	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C701	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C702	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C703	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C704	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C705	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C706	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C708	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C709	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C710	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C711	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C712	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C713	1-126-964-11	ELECT	10uF	20%	50V
C714	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C715	1-104-665-11	ELECT	100uF	20%	10V
C716	1-126-964-11	ELECT	10uF	20%	50V
C717	1-104-663-11	ELECT	33uF	20%	25V
C718	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C719	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C720	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C721	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C722	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C724	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C725	1-162-927-11	CERAMIC CHIP	100PF	5%	50V

USB AUX

Ref. No.	Part No.	Description			Remark
C755	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C756	1-126-963-11	ELECT	4.7uF	20%	50V
C757	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C758	1-104-665-11	ELECT	100uF	20%	10V
C759	1-126-947-11	ELECT	47uF	20%	10V
C760	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C762	1-164-222-11	CERAMIC CHIP	0.22uF		25V
		< CONNECTOR >			
CN701	1-784-778-11	CONNECTOR, FFC 17P			
		< GROUND TERMINAL >			
* EP701	1-537-738-21	TERMINAL, EARTH			
* EP702	1-537-738-21	TERMINAL, EARTH			
		< IC >			
IC700	6-704-219-01	IC UAC3553B			
IC701	8-759-701-56	IC NJM78M05FA			
		< JACK >			
* J700	1-784-010-11	CONNECTOR, USB (B) (USB)			
J701	1-779-583-11	JACK, PIN 3P (LINE IN)			
		< SHORT >			
JR701	1-216-864-11	SHORT CHIP	0		
JR702	1-216-864-11	SHORT CHIP	0		
JR703	1-216-864-11	SHORT CHIP	0		
		< FERRITE>			
JN702	1-410-396-41	FERRITE	0.45uH		
JN704	1-410-396-41	FERRITE	0.45uH		
		< COIL >			
L700	1-216-864-11	SHORT CHIP	0		
L701	1-216-864-11	SHORT CHIP	0		
L702	1-216-864-11	SHORT CHIP	0		
L703	1-216-864-11	SHORT CHIP	0		
L705	1-216-864-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q700	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q701	8-729-106-60	TRANSISTOR	2SB1132-T101-R		
Q702	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
		< RESISTOR >			
R700	1-216-801-11	METAL CHIP	22	5%	1/10W
R701	1-216-801-11	METAL CHIP	22	5%	1/10W
R702	1-216-835-11	METAL CHIP	15K	5%	1/10W
R703	1-216-835-11	METAL CHIP	15K	5%	1/10W
R704	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R705	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R706	1-216-835-11	METAL CHIP	15K	5%	1/10W
R707	1-216-835-11	METAL CHIP	15K	5%	1/10W
R710	1-216-849-11	METAL CHIP	220K	5%	1/10W
R711	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R712	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R716	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R718	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R720	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R721	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R722	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R723	1-216-821-11	METAL CHIP	1K	5%	1/10W
R724	1-216-809-11	METAL CHIP	100	5%	1/10W
R725	1-216-809-11	METAL CHIP	100	5%	1/10W
R726	1-216-809-11	METAL CHIP	100	5%	1/10W
R727	1-216-809-11	METAL CHIP	100	5%	1/10W
R728	1-216-809-11	METAL CHIP	100	5%	1/10W
R729	1-216-819-11	METAL CHIP	680	5%	1/10W
R730	1-216-819-11	METAL CHIP	680	5%	1/10W
R731	1-216-803-11	METAL CHIP	33	5%	1/10W
R732	1-216-845-11	METAL CHIP	100K	5%	1/10W
R735	1-216-837-11	METAL CHIP	22K	5%	1/10W
R736	1-216-837-11	METAL CHIP	22K	5%	1/10W
		< VIBRATOR >			
X700	1-578-774-81	VIBRATOR, CRYSTAL (12MHz)			

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		MISCELLANEOUS
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51	1-796-351-61	MECHANISM, SIGNAL CASSETTE (CMAL1Z241A) (EXCEPT US)
59	1-765-326-11	WIRE (FLAT TYPE) (11 CORE) (EXCEPT US)
60	1-827-677-11	WIRE (FLAT TYPE) (8 CORE) (EXCEPT US)
102	1-769-869-11	WIRE (FLAT TYPE) (5 CORE) (E51, MX)
153	1-773-115-11	WIRE (FLAT TYPE) (19 CORE)
154	1-773-156-11	WIRE (FLAT TYPE) (21 CORE)
254	1-765-334-11	WIRE (FLAT TYPE) (17 CORE)
255	1-769-943-11	WIRE (FLAT TYPE) (11 CORE) (US, E51, MX)
255	1-773-007-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)
257	1-693-625-11	TUNER (FM/AM) (US)
257	1-693-626-11	TUNER (FM/AM) (AEP, UK)
257	1-693-628-11	TUNER (FM/AM) (E51, MX)
258	1-769-944-11	WIRE (FLAT TYPE) (11 CORE)
259	1-827-488-11	WIRE (FLAT TYPE) (27 CORE)
260	1-827-489-11	WIRE (FLAT TYPE) (11 CORE)
261	1-775-217-11	WIRE (FLAT TYPE) (23 CORE)
⚠303	1-777-071-83	CORD, POWER (AEP, UK, E51)
⚠303	1-783-532-11	CORD, POWER (US)
⚠303	1-827-226-11	CORD, POWER (MX)
⚠807	A-4735-189-A	BU-30 (61) ASSY
808	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)
⚠F001	1-533-453-12	FUSE, GLASS TUBE (DIA. 5) (5A/125V) (US)
⚠F001	1-533-472-11	FUSE, GLASS TUBE (DIA. 5) (5A/250V) (E51, MX)
M301	1-763-072-11	FAN, DC
M761	A-4735-953-A	MOTOR ASSY (STOCKER)
M771	A-4735-953-A	MOTOR ASSY (MODE)
M781	A-4735-953-A	MOTOR ASSY (ROLLER)
⚠PT001	1-439-796-11	TRANSFORMER, POWER (MX)
⚠PT002	1-439-795-11	TRANSFORMER, POWER (E51)
⚠PT003	1-439-794-11	TRANSFORMER, POWER (US)
⚠PT003	1-439-797-11	TRANSFORMER, POWER (AEP, UK)
Q531	6-550-291-01	TRANSISTOR FN1016 (AEP, UK)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
Q531	6-550-320-01	TRANSISTOR 2SD2562 (E51, MX)	
Q531	8-729-020-52	TRANSISTOR 2SD2439-OPY (US)	
Q532	6-550-291-01	TRANSISTOR FN1016 (AEP, UK)	
Q532	6-550-320-01	TRANSISTOR 2SD2562 (E51, MX)	
Q532	8-729-020-52	TRANSISTOR 2SD2439-OPY (US)	
Q533	6-550-292-01	TRANSISTOR FP1016 (AEP, UK)	
Q533	6-550-319-01	TRANSISTOR 2SB1649 (E51, MX)	
Q533	8-729-020-48	TRANSISTOR 2SB1588-OPY (US)	
Q534	6-550-292-01	TRANSISTOR FP1016 (AEP, UK)	
Q534	6-550-319-01	TRANSISTOR 2SB1649 (E51, MX)	
Q534	8-729-020-48	TRANSISTOR 2SB1588-OPY (US)	
S702	1-477-299-11	ENCODER, ROTARY (STOCKER POSITION)	
S771	1-477-300-11	ENCODER, ROTARY (MODE)	

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ACCESSORIES
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⚠	1-569-008-12	ADAPTOR, CONVERSION 2P (E51)	
⚠	1-770-019-51	ADAPTOR, CONVERSION PLUG (UK)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2003.06	New